AO 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas - Marshall Texas on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
2:22-cv-494	12/23/2022	Eastern District of Texas - Marshall Texas

PLAINTIFF	DEFENDANT
Multimedia Technologies Pte. Ltd.	LG ELECTRONICS INC. and LG ELECTRONICS USA, INC.

Format m/d/yyyy

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	9,055,254	06/09/2015	Multimedia Technologies Pte. Ltd
2	9,237,291	01/12/2016	Multimedia Technologies Pte. Ltd
3	9,232,168	01/05/2016	Multimedia Technologies Pte. Ltd
4	9,247,174	01/26/2016	Multimedia Technologies Pte. Ltd
5	9,510,040	11/29/2016	Multimedia Technologies Pte. Ltd

See attachment page 2

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director **Copy 3—Upon termination of action, mail this copy to Director**
Copy 2—Upon filing document adding patent(s), mail this copy to Director **Copy 4—Case file copy**

Continued from page 1:

PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
6. 9,578,384	02/21/2017	Multimedia Technologies Pte. Ltd
7. 9,820,003	11/14/2017	Multimedia Technologies Pte. Ltd
8. 10,419,805	09/17/2019	Multimedia Technologies Pte. Ltd
9. 9,426,527	08/23/2016	Multimedia Technologies Pte. Ltd
10. 9,055,255	06/09/2015	Multimedia Technologies Pte. Ltd
11. 9,185,325	11/10/2015	Multimedia Technologies Pte. Ltd

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO.	: 9,055,254 B2
APPLICATION NO.	: 13/968884
DATED	: June 9, 2015
INVENTOR(S)	: Mohammed Selim

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims

At Column 41, line 50, please add "wherein the" before the phrase --selected is associated with...-- therein.

Signed and Sealed this
Eighth Day of December, 2015

Michelle K. Lee

Michelle K. Lee
Director of the United States Patent and Trademark Office

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Patent of:		)	
		)	
Inventor(s):	Selim	)	
		)	
Patent No.:	9,055,254	)	Conf. No. **1062**
		)	
Issued:	June 9, 2015	)	
		)	
Atty. File No.:	6583-445	)	
		)	
For: ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS		)	

ATTN: Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT FOR PTO MISTAKE (37 CFR 1.322(a)

Sir:

This is a request for a Certificate of Correction for PTO mistake under 37 CFR 1.322(a). Attached is form PTO/SB/44. The error in the patent is an omission and the correct wording can be found in the Examiner's Amendment that was included within the Corrected Notice of Allowability issued 04/01/2015.

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: August 12, 2015

By: /Douglas W. Swartz/
Douglas W. Swartz
Reg. No. 37,739
1560 Broadway, Suite 1200
Denver, Colorado 80202
Telephone: 303-863-9700

PTO/SB/44 (09-07)
Approved for use through 08/31/2013. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 9,055,254

APPLICATION NO.: 13/968,884

ISSUE DATE : June 9, 2015

INVENTOR(S) : Mohammed Selim

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At Column 41, line 50, please add "wherein the" before the phrase --selected is associated with...-- therein.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Sheridan Ross P.C.
1560 Broadway, Suite 1200
Denver, CO 80202

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	23162131
Application Number:	13968884
International Application Number:	
Confirmation Number:	1062
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Customer Number:	111285
Filer:	Douglas W. Swartz/Christine Jacquet
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-445
Receipt Date:	10-AUG-2015
Filing Date:	16-AUG-2013
Time Stamp:	14:37:00
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	requestforcertificateofcorrection.pdf	68399 61b8531d1f5ffad6067107f702ae5cecfc10ffa5	no	1

Warnings:	
Information:	

2	Request for Certificate of Correction	SB_44_Form.pdf	164404 0fd7ed3f6d0b7ac5ce3e90958341ffb808178c9d	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	232803	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/968,884	06/09/2015	9055254	6583-445	1062

111285 7590 05/20/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Flextronics AP, LLC, San Jose, CA;
Mohammed Selim, Oakville, CANADA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	2	of	4	Attorney Docket Number	6583-445

	33	2009/0179989	07/16/2009	Bessone et al.	
	34	2009/0241048	09/24/2009	Augustine et al.	
	35	2010/0071019	03/18/2010	Blanchard et al.	
	36	2010/0107112	04/29/2010	Jennings et al.	
	37	2010/0122284	05/13/2010	Yoon et al.	
	38	2011/0022450	01/27/2011	Meredith	
	39	2011/0023608	02/03/2011	Rueger	
	40	2011/0067066	03/17/2011	Barton et al.	
	41	2011/0145881	06/16/2011	Hartman et al.	
	42	2011/0161996	06/30/2011	Hamano et al.	
	43	2011/0167452	07/07/2011	Baumgartner et al.	
	44	2012/0030317	02/02/2012	Smyth et al.	
	45	2012/0033950	02/09/2012	Cordray et al.	
	46	2012/0060094	03/08/2012	Irwin et al.	
	47	2012/0284752	11/08/2012	~~Christie~~ JUNG	
	48	2013/0191869	07/25/2013	Sugiyama et al.	
	49	2013/0275519	10/17/2013	Nichols	
	50	2013/0291015	10/31/2013	Pan	
	51	2013/0332856	12/12/2013	Sanders et al.	
	52	2014/0040819	02/06/2014	Duffy	

Change(s) applied to document, /S.X.R./ 2/2/2015

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	53	Official Action for U.S. Patent Application No. 13/969,846, mailed Aug. 15, 2014 (Attorney's Ref. No. 6583-426) 19 pages
	54	Official Action for U.S. Patent Application No. 13/969,869, mailed Sep. 16, 2014 (Attorney's Ref. No. 6583-428) 20 pages

Examiner Signature	/Adil Ocak/	Date Considered	12/24/2014

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.O./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2425
				Examiner Name	Brian T Pendleton
Sheet	3	of	11	Attorney Docket Number	6583-445

	69	2009/0019485	01/15/2009	Ellis et al.	
	70	2009/0064222	03/05/2009	Dawson et al.	
	71	2009/0129340	05/21/2009	Handa	
	72	2009/0199237	08/06/2009	White et al.	
	73	2009/0204929	08/13/2009	Baurmann et al.	
	74	2009/0210910	08/20/2009	Smith et al.	
	75	2009/0235311	09/17/2009	Michel et al.	
	76	2009/0249394	10/01/2009	Schwesinger et al.	
	77	2009/0293078	11/26/2009	Pirani et al.	
	78	2010/0013997	01/21/2010	Whang	
	79	2010/0031193	02/04/2010	Stark et al.	
	80	2010/0050219	02/25/2010	Angiolillo et al.	
	81	2010/0086277	04/08/2010	Craner	
	82	2010/0161506	06/24/2010	Bosenick et al.	
	83	2010/0172407	07/08/2010	Ramaswamy	
	84	2010/0180292	07/15/2010	Epstein et al.	
	85	2010/0201890	08/12/2010	Degonde et al.	
	86	2010/0225830	09/09/2010	Blanchard et al.	
	87	2010/0293497	11/18/2010	Peterson	
	88	2010/0306402	12/02/2010	Russell et al.	
	89	2011/0016492	01/20/2011	Morita	
	90	2011/0035774	02/10/2011	Parker	
	91	2011/0041150	02/17/2011	Schein et al.	
	92	2011/0047572	02/24/2011	Hill et al.	
	93	2011/0060661	03/10/2011	Chai et al.	
	94	2011/0072480	03/24/2011	Stone	
	95	2011/0074591	03/31/2011	Arling et al.	
	96	2011/0078745	03/31/2011	Macrae et al.	
	97	2011/0093888	04/21/2011	Araki et al.	
	98	2011/0126251	05/26/2011	LaFreniere et al.	
	99	2011/0125755	05/26/2011	Kaila et al.	
Change(s) applied to document, /S.X.R./ 2/2/2015	100	2011/0119626	~~06/16/2011~~	Faenger et al.	May 19, 2011
	101	2011/0145860	06/16/2011	Wei	
	102	2011/0154198	06/23/2011	Bachman et al.	
	103	2011/0173657	07/14/2011	Thomas et al.	
	104	2011/0187929	08/04/2011	Suzuki et al.	

Examiner Signature	/Adil Ocak/	Date Considered	06/12/2014

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.O./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2425
				Examiner Name	Brian T Pendleton
Sheet	2	of	11	Attorney Docket Number	6583-445

	33	2003/0110234	06/12/2003	Egli et al.	
	34	2003/0151621	08/14/2003	McEvilly et al.	
	35	2003/0177498	09/18/2003	Ellis et al.	
	36	2003/0182659	09/25/2003	Ellis et al.	
	37	2003/0225777	12/04/2003	Marsh	
	38	2003/0226146	12/04/2003	Thurston et al.	
	39	2004/0103120	05/27/2004	Fickle et al.	
	40	2004/0117831	06/17/2004	Ellis et al.	
	41	2004/0119815	06/24/2004	Soloff	
	42	2004/0211282	10/28/2004	Kim	
	43	2004/0216156	10/28/2004	Wagner	
	44	2004/0237108	11/25/2004	Drazin et al.	
	45	2005/0188318	08/25/2005	Tamir et al.	
	46	2005/0232210	10/20/2005	Karaoguz et al.	
	47	2006/0031875	02/09/2006	Yu	
	48	2006/0064716	03/23/2006	Sull et al.	
	49	2006/0101504	05/11/2006	Aravamudan et al.	
	50	2006/0117337	06/01/2006	Shivaji Rao et al.	
	51	2006/0158838	07/20/2006	Kinoshita et al.	
	52	2006/0262116	11/23/2006	Moshiri et al.	
	53	2006/0280449	12/14/2006	Ogawa et al.	
	54	2007/0028282	02/01/2007	Kooijmans et al.	
	55	2007/0050733	03/01/2007	Lee et al.	
	56	2007/0061724	03/15/2007	Slothouber et al.	
	57	2007/0096939	05/03/2007	Walrath	
	58	2007/0143809	06/21/2007	Chen et al.	
	59	2007/0261090	11/08/2007	Miller et al.	
	60	2008/0022309	01/24/2008	Begeja et al.	
	61	2008/0086745	04/10/2008	Knudson et al.	
	62	2008/0098433	04/24/2008	Hardacker et al.	
	63	2008/0141307	06/12/2008	Whitehead	
	64	2008/0177828	07/24/2008	Accarie et al.	
	65	2009/0160764	~~08/20/2008~~	Myllymäki	June 25, 2009
	66	2008/0244637	10/02/2008	Candelore	
	67	2008/0288461	11/20/2008	Glennon et al.	
	68	2008/0307457	12/11/2008	Yang et al.	

Change(s) applied to document, /S.X.R./ 2/2/2015

Examiner Signature	/Adil Ocak/	Date Considered	06/12/2014

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.O./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
(Use as many sheets as necessary)				First Named Inventor	Mohammed Selim
				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	1	of	4	Attorney Docket Number	6583-445

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	5701183	12/23/1997	Bellemare et al.	
	2	5801747	09/01/1998	Bedard	
	3	5933141	08/03/1999	Smith	
	4	2002/0007485	01/17/2002	Rodriguez et al.	
	5	2003/0070171	04/10/2003	Jeon et al.	
	6	2005/0120306	06/02/2005	Klassen et al.	
	7	2005/0273819	12/08/2005	Knudson et al.	
	8	2007/0066283	03/22/2007	Haar et al.	
	9	2008/0155613	06/26/2008	Benya et al.	
	10	2008/0250455	10/09/2008	Fukuda et al.	
	11	2010/0060799	03/11/2010	Ishii	
	12	2010/0235740	09/16/2010	Friedlander et al.	
	13	2010/0302444	12/02/2010	Ahn et al.	
	14	2010/0319036	12/16/2010	Lim et al.	
	15	2011/0119707	05/19/2011	Bae et al.	
	16	2011/0283304	11/17/2011	Roberts et al.	
	17	2012/0060187	03/08/2012	Moon et al.	
	18	2012/0079427	03/29/2012	Carmichael et al.	
	19	2012/0198490	08/02/2012	Mertens	
	20	2012/0297422	11/22/2012	Mountain	
	21	2013/0027613	01/31/2013	Kim et al.	
	22	2013/0276031	10/17/2013	Oh et al.	
	23	2013/0297697	11/07/2013	Haimovitch et al.	
	24	2014/0040344	02/06/2014	Gehring et al.	
	25	2014/0223464	08/07/2014	Moran et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Adil Ocak/	Date Considered	04/21/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

/Adil Ocak/ 04/21/2015

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.O./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
(Use as many sheets as necessary)				First Named Inventor	Mohammed Selim
				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	2	of	4	Attorney Docket Number	6583-445

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	26	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55494, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-426-PCT) 8 pages
	27	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/36826, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-430-PCT) 8 pages
	28	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055342, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-434-PCT) 10 pages
	29	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55589, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-436-PCT) 8 pages
	30	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055289, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-444-PCT) 8 pages
	31	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055286, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-446-PCT) 8 pages
	32	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055294, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-450-PCT) 10 pages
	33	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55493, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-452-PCT) 8 pages
	34	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/036828, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-453-PCT) 12 pages
	35	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055340, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-454-PCT) 8 pages
	36	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55592, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-464-PCT) 10 pages
	37	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/036819, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-469-PCT) 8 pages
	38	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/036782, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-470-PCT) 8 pages
	39	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/36678, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-471-PCT) 8 pages
	40	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/036804, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-472-PCT) 12 pages
	41	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55405, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-478-PCT) 8 pages
	42	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055278, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-479-PCT) 8 pages

Examiner Signature	/Adil Ocak/	Date Considered	04/21/2015

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/Adil Ocak/ 04/21/2015

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.O./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
(Use as many sheets as necessary)				First Named Inventor	Mohammed Selim
				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	3	of	4	Attorney Docket Number	6583-445

	43	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55509, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-481-PCT) 8 pages
	44	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/CN2013/081639, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-487-PCT) 6 pages
	45	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055303, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-488-PCT) 7 pages
	46	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55567, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-519-PCT) 9 pages
	47	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55570, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-520-PCT) 7 pages
	48	Official Action for U.S. Patent Application No. 13/969,846, mailed Mar. 02, 2015 (Attorney's Ref. No. 6583-426) 21 pages
	49	Official Action for U.S. Patent Application No. 13/969,869, mailed Feb. 24, 2015 (Attorney's Ref. No. 6583-428) 22 pages
	50	Official Action for U.S. Patent Application No. 13/969,880, mailed Mar. 27, 2015 (Attorney's Ref. No. 6583-431) 14 pages
	51	Notice of Allowance for U.S. Patent Application No. 13/969,884, mailed Mar. 24, 2015 (Attorney's Ref. No. 6583-432) 16 pages
	52	Official Action for U.S. Patent Application No. 13/969,887, mailed Mar. 11, 2015 (Attorney's Ref. No. 6583-433) 24 pages
	53	Official Action for U.S. Patent Application No. 13/969,485, mailed Mar. 11, 2015 (Attorney's Ref. No. 6583-435) 19 pages
	54	Official Action for U.S. Patent Application No. 13/970,442, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-441) 10 pages
	55	Official Action for U.S. Patent Application No. 13/968,913, mailed Apr. 01, 2015 (Attorney's Ref. No. 6583-448) 16 pages
	56	Official Action for U.S. Patent Application No. 13/968,983, mailed Mar. 12, 2015(Attorney's Ref. No. 6583-449) 21 pages
	57	Official Action for U.S. Patent Application No. 13/968,948, mailed Mar. 11, 2015 (Attorney's Ref. No. 6583-450) 13 pages
	58	Official Action for U.S. Patent Application No. 13/969,588, mailed Mar. 11, 2015 (Attorney's Ref. No. 6583-452) 12 pages
	59	Official Action for U.S. Patent Application No. 13/969,505, mailed Feb. 24, 2015 (Attorney's Ref. No. 6583-454) 9 pages
	60	Official Action for U.S. Patent Application No. 13/969,491, mailed Mar. 20, 2015 (Attorney's Ref. No. 6583-457) 25 pages
	61	Official Action for U.S. Patent Application No. 13/969,493, mailed Mar. 2, 2015 (Attorney's Ref. No. 6583-459) 15 pages

Examiner Signature	/Adil Ocak/	Date Considered	04/21/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

/Adil Ocak/ 04/21/2015

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	4	of	4	Attorney Docket Number	6583-445

	62	Official Action for U.S. Patent Application No. 13/969,179, mailed Mar. 12, 2015 (Attorney's Ref. No. 6583-478) 17 pages
	63	Official Action for U.S. Patent Application No. 13/968,709, mailed Feb. 23, 2015 (Attorney's Ref. No. 6583-493) 13 pages
	64	Notice of Allowance for U.S. Patent Application No. 13/968,610, mailed Feb. 24, 2015 (Attorney's Ref. No. 6583-499) 5 pages
	65	Official Action for U.S. Patent Application No. 13/968,630, mailed Mar. 27, 2015 (Attorney's Ref. No. 6583-504) 15 pages
	66	Official Action for U.S. Patent Application No. 13/969,508, mailed Mar. 05, 2015 (Attorney's Ref. No. 6583-510) 9 pages
	67	Official Action for U.S. Patent Application No. 13/969,510, mailed Feb. 24, 2015 (Attorney's Ref. No. 6583-511) 17 pages
	68	Official Action for U.S. Patent Application No. 13/969,504, mailed Feb. 23, 2015 (Attorney's Ref. No. 6583-526) 10 pages

Examiner Signature	/Adil Ocak/	Date Considered	04/21/2015

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/Adil Ocak/ 04/21/2015

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	1	of	1	Attorney Docket Number	6583-445

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	1	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055288, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-445-PCT) 10 pages

Examiner Signature	/Adil Ocak/	Date Considered	04/21/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

/Adil Ocak/ 04/21/2015

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.O./

OK TO ENTER: /A.O./

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	Group Art Unit: 2426
SELIM, Mohammed	Confirmation No.: 1062
Serial No.: 13/968,884	Examiner: Adil Ocak
Filed: August 16, 2013	
Atty. File No.: 6583-445	
Entitled: "ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS"	***Submitted Via EFS-Web***

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AFTER ALLOWANCE PURSUANT TO 37 CFR § 1.312

Dear Sir/Madam:

Applicants submit this Amendment After Allowance pursuant to 37 CFR § 1.312 in response to the Notice of Allowance and Fee(s) Due having a mailing date of January 5, 2015. An amendment may be entered after the mailing of a Notice of Allowance but prior to payment of the issue fee upon the recommendation of the primary examiner. Therefore, it is respectfully requested that the above-referenced application be amended as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page **2** of this paper.

Remarks/Arguments begin on page **9** of this paper.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/968,884	08/16/2013	Mohammed Selim	6583-445	1062

111285 7590 05/08/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
OCAK, ADIL

ART UNIT	PAPER NUMBER
2426	

NOTIFICATION DATE	DELIVERY MODE
05/08/2015	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

flexpatents@sheridanross.com
edocket@sheridanross.com

Response to Rule 312 Communication	Application No.	Applicant(s)
	13/968,884	SELIM, MOHAMMED
	Examiner	Art Unit
	ADIL OCAK	2426

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address –

1. ☒ The amendment filed on *03 April 2015* under 37 CFR 1.312 has been considered, and has been:

   a) ☐ entered.

   b) ☒ entered as directed to matters of form not affecting the scope of the invention.

   c) ☐ disapproved because the amendment was filed after the payment of the issue fee.
   Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

   d) ☐ disapproved. See explanation below.

   e) ☐ entered in part. See explanation below.

/ADIL OCAK/ Examiner, Art Unit 2426	/Josh Taylor/ Primary Examiner, Art Unit 2426

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/968,884	08/16/2013	Mohammed Selim	6583-445	1062

7590 04/14/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
OCAK, ADIL	
ART UNIT	PAPER NUMBER
2426	
NOTIFICATION DATE	DELIVERY MODE
04/14/2015	ELECTRONIC

NOTICE OF NON-COMPLIANT INFORMATION DISCLOSURE STATEMENT

An Information Disclosure Statement (IDS) filed 4-3-15 (1st reference Duarte et al.) in the above-identified application fails to meet the requirements of 37 CFR 1.97(d) for the reason(s) specified below. Accordingly, the IDS will be placed in the file, but the information referred to therein has not been considered.

The IDS is not compliant with 37 CFR 1.97(d) because:

☑ The IDS lacks a statement as specified in 37 CFR 1.97(e).

☐ The IDS lacks the fee set forth in 37 CFR 1.17(p).

☐ The IDS was filed after the issue fee was paid. Applicant may wish to consider filing a petition to withdraw the application from issue under 37 CFR 1.313(c) to have the IDS considered. See MPEP 1308.

571-272-4200 or 1-888-786-0101
Application Assistance Unit
Office of Data Management

FORM PTOM327-B (Rev. 02/08)

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

111285 7590 01/05/2015
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/968,884	08/16/2013	Mohammed Selim	6583-445	1062

TITLE OF INVENTION: ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	04/06/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
OCAK, ADIL	2426	725-056000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Sheridan Ross P.C.
2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Flextronics AP, LLC
(B) RESIDENCE: (CITY and STATE OR COUNTRY): San Jose, CA

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
☒ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 19-1970 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
☐ Applicant certifying micro entity status. See 37 CFR 1.29
NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
☐ Applicant asserting small entity status. See 37 CFR 1.27
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
☐ Applicant changing to regular undiscounted fee status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Douglas W. Swartz/ Date April 6, 2015
Typed or printed name Douglas W. Swartz Registration No. 37,739

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Electronic Patent Application Fee Transmittal

Application Number:	13968884
Filing Date:	16-Aug-2013
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Filer:	Douglas W. Swartz/Amy Duarte
Attorney Docket Number:	6583-445

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	1501	1	960	960

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**960**

Electronic Acknowledgement Receipt

EFS ID:	21975415
Application Number:	13968884
International Application Number:	
Confirmation Number:	1062
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Customer Number:	111285
Filer:	Douglas W. Swartz/Amy Duarte
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-445
Receipt Date:	06-APR-2015
Filing Date:	16-AUG-2013
Time Stamp:	12:32:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$960
RAM confirmation Number	7847
Deposit Account	191970
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Issue-fee-transmital_6583-445.pdf	94326 4f8232bc03ddbefe0017d77519f715dae7ce3921	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30747 23ad437884ff024234003adda1810179c9e9a223	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	125073		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	1	of	1	Attorney Docket Number	6583-445

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	2010/0058231	03/04/2010	Duarte et al.	
	2	2011/0213670	09/01/2011	Strutton et al.	

UNPUBLISHED U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Filing Date MM-DD-YYYY	Name of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	3	14/407593	12/12/2014	Sirpal et al.	
	4	14/407598	12/12/2014	Sirpal et al.	
	5	14/407601	12/12/2014	Sirpal et al.	
	6	14/407609	12/12/2014	Sirpal et al.	
	7	14/418969	02/02/2015	Sirpal et al.	
	8	14/418972	02/02/2015	Sirpal et al.	
	9	14/418971	02/02/2015	Shoykher et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Electronic Acknowledgement Receipt

EFS ID:	21964133
Application Number:	13968884
International Application Number:	
Confirmation Number:	1062
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Customer Number:	111285
Filer:	Douglas W. Swartz/Theresa Brown
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-445
Receipt Date:	03-APR-2015
Filing Date:	16-AUG-2013
Time Stamp:	12:10:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		6583-445_IDS_07.pdf	103250 a153d5732115b29e31746027c568dde4a1f2ef6e	yes	3

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	2
	Information Disclosure Statement (IDS) Form (SB08)	3	3
Warnings:			
Information:			
	Total Files Size (in bytes):	103250	

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2426
Mohammed Selim	)	Confirmation No.: 1062
Serial No.: 13/968,884	)	Examiner: Adil Ocak
Filed: August 16, 2013	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-445	)	
Entitled: "On Screen Method and System for Changing Television Channels"	)	*Electronically Submitted*

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☐ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/unpublished patent applications/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☐ Examiner's attention is drawn to the following related applications:

Serial No. _____ filed _____ (Attorney Ref. No. _____)

Serial No. _____ filed _____ (Attorney Ref. No. _____)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence

EX. 1002
LG Electronics, Inc. / Page 30 of 3523

of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: April 3, 2015

EX. 1002
LG Electronics, Inc. / Page 31 of 3523

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	Group Art Unit: 2426
SELIM, Mohammed	Confirmation No.: 1062
Serial No.: 13/968,884	Examiner: Adil Ocak
Filed: August 16, 2013	
Atty. File No.: 6583-445	
Entitled: "ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS"	***Submitted Via EFS-Web***

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AFTER ALLOWANCE PURSUANT TO 37 CFR § 1.312

Dear Sir/Madam:

Applicants submit this Amendment After Allowance pursuant to 37 CFR § 1.312 in response to the Notice of Allowance and Fee(s) Due having a mailing date of January 5, 2015. An amendment may be entered after the mailing of a Notice of Allowance but prior to payment of the issue fee upon the recommendation of the primary examiner. Therefore, it is respectfully requested that the above-referenced application be amended as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page **2** of this paper.

Remarks/Arguments begin on page **9** of this paper.

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method, comprising:

receiving, wirelessly by at least one of an infrared and radio frequency module of a television and from a remote control, a request to change a programming channel;

displaying, by a microprocessor executable application framework and on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9;

receiving, by the application framework and from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar of the on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and

changing, by the application framework, to the selected channel, wherein the remote control comprises:

a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, and internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media;

an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms;

an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon; and

a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser system settings, and information associated therewith.

2. (Previously Presented) The method of claim 1, wherein the EPG information corresponds to multiple programs and/or channels, wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description.

3. (Previously Presented) The method of claim 1, wherein each of the digits are selected using one or more arrow keys and a select button and wherein the information panel comprises one or more of identify the selected application, provide a description of the functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to favorites the selected application, and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application.

4. (Previously Presented) The method of claim 1, wherein the remote control does not have a key corresponding to each of the digits.

5. (Previously Presented) The method of claim 1, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, wherein the EPG information and graphical image are provided by an electronic program guide service, and wherein the remote control further comprises plural hotkeys, the functions of each of the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen.

6. (Previously Presented) The method of claim 1, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits and wherein the remote control further

comprises a moveable joystick that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount.

7. (Currently Amended) A television, comprising:

a television screen;

at least one of an infrared and radio frequency module configured to receive wirelessly requests from a remote control of a user, the requests comprising a selected channel or program from a displayed listing; and

a microprocessor executable application framework configured to:

receive a request to change a programming channel, display, on the television screen, an on screen channel changer, the on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9,

receive, from the remote control and using the on screen channel changer, a channel selection of a user based on digits in the number input bar, wherein the user selects the digits from the number input bar using non-numeric keys on the remote control, and

change to the selected channel, wherein the remote control comprises:

a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, internal computational devices, and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media;

an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms;

an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected application icon; and

a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and information associated therewith.

8. (Previously Presented) The television of claim 7, wherein each of the digits are selected using one or more arrow keys and a select button, wherein the selected is associated with a pre-installed or previously downloaded, and wherein the information panel comprises one or more of identify the selected application, provide a description of the functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to favorites the selected application, and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application.

9. (Previously Presented) The television of claim 7, wherein the remote control does not have a key corresponding to each of the digits.

10. (Previously Presented) The television of claim 7, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, wherein the EPG information and graphical image are provided by an electronic program guide service, and wherein the remote control further comprises plural hotkeys, the functions of each of the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen.

11. (Previously Presented) The television of claim 7, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits and wherein the remote control further comprises a moveable joystick that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount.

12. (Currently Amended) A tangible and non-transient computer readable medium, comprising microprocessor executable instructions that, when executed, are configured to perform operations comprising:

instructions to receive, from a remote control of a user, a request to change a programming channel;

instructions to display, on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9;

instructions to receive, from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar of the on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and

instructions to change to the selected channel, wherein the remote control comprises:

a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, internal computational devices, and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media;

an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications;

an application panel button that, when selected, displays, by the television screen, an application panel; and

a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and information associated therewith.

13. (Previously Presented) The computer readable medium of claim 12, wherein the EPG information corresponds to multiple programs and/or channels, and wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description.

14. (Previously Presented) The computer readable medium of claim 12, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon, and wherein the information panel comprises one or more of identify the selected application, provide a description of the functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to

favorites the selected application, and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application.

15. (Previously Presented) The computer readable medium of claim 12, wherein the remote control does not have a key corresponding to each of the digits.

16. (Previously Presented) The computer readable medium of claim 12, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image are provided by an electronic program guide service, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, and wherein the remote control further comprises plural hotkeys, the functions of each of the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen.

17. (Previously Presented) The computer readable medium of claim 12, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits and wherein the remote control further comprises a moveable joystick that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount.

18. (Canceled)

19. (Canceled)

20. (Previously Presented) The television of claim 7, wherein the EPG information corresponds to multiple programs and/or channels, wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description, wherein the remote control comprises a media center button that, when selected, provides, by the television screen, displayed information regarding groupings of music, videos, and/or photographs, and/or internal and external computational devices, the computational devices comprising one or more

of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media.

21. (Currently Amended) The method of claim 1, wherein the remote control further comprises a social network button that, when selected, automatically selects content and publishes, via a social network service or other social media, the content to a social network or online community wherein, by the remote control, a social volume visualization can be adjusted whereby the screen ~~displayes~~ displays a dynamic visualization of aggregated connections and/or inbound and/or outbound messages from a variety of social networks, the aggregation and/or inbound and/or outbound messages being depicted graphically on the screen as a volume of connections to influence the user, wherein, by the social volume visualization, selected contents of each linked social network profile of a social contact and/or inbound and/or outbound messages from or to the linked social network contact and/or current activity of the social contact is presented in a separate tile and/or visually displayed object, and wherein, by turning the social volume up or down, the user increases or decreases a size and/or numbers of linked contact tiles displayed by the screen to the viewer, whereby increasing the social volume enables the user to view, access, and/or push more social content from selected social networks associated with the user and decreasing the social volume enables the user to view, access, and/or push less social content from selected social networks associated with the user.

REMARKS/ARGUMENTS

The amendments to Claims 1, 7, 12, and 21 require no additional search or examination, and the claims as amended are patentable for the same reasons as the independent claims from which they depend. The amendments are requested to further clarify any potential ambiguity in the claims and were not been earlier amended as the need for the amendments was not appreciated when the Amendment and Response was filed. Please charge any deficiency or credit any overpayment to Deposit Account 19-1970.

Accordingly, Applicant believes that the requirements of 37CFR§1.312 and MPEP§714.16 have been satisfied and entry of this amendment is respectfully requested.

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37,739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: April 3, 2015

Electronic Acknowledgement Receipt

EFS ID:	21970712
Application Number:	13968884
International Application Number:	
Confirmation Number:	1062
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Customer Number:	111285
Filer:	Douglas W. Swartz/Amy Duarte
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-445
Receipt Date:	03-APR-2015
Filing Date:	16-AUG-2013
Time Stamp:	19:12:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Rule_312_Amendment_6583-445.pdf	160172 1e7a2f506da9ac37f253b45bd168dd5f06a26a85	yes	9

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment after Notice of Allowance (Rule 312)	1	1
	Claims	2	8
	Applicant Arguments/Remarks Made in an Amendment	9	9
Warnings:			
Information:			
	Total Files Size (in bytes):	160172	

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	1	of	4	Attorney Docket Number	6583-445

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	5701183	12/23/1997	Bellemare et al.	
	2	5801747	09/01/1998	Bedard	
	3	5933141	08/03/1999	Smith	
	4	2002/0007485	01/17/2002	Rodriguez et al.	
	5	2003/0070171	04/10/2003	Jeon et al.	
	6	2005/0120306	06/02/2005	Klassen et al.	
	7	2005/0273819	12/08/2005	Knudson et al.	
	8	2007/0066283	03/22/2007	Haar et al.	
	9	2008/0155613	06/26/2008	Benya et al.	
	10	2008/0250455	10/09/2008	Fukuda et al.	
	11	2010/0060799	03/11/2010	Ishii	
	12	2010/0235740	09/16/2010	Friedlander et al.	
	13	2010/0302444	12/02/2010	Ahn et al.	
	14	2010/0319036	12/16/2010	Lim et al.	
	15	2011/0119707	05/19/2011	Bae et al.	
	16	2011/0283304	11/17/2011	Roberts et al.	
	17	2012/0060187	03/08/2012	Moon et al.	
	18	2012/0079427	03/29/2012	Carmichael et al.	
	19	2012/0198490	08/02/2012	Mertens	
	20	2012/0297422	11/22/2012	Mountain	
	21	2013/0027613	01/31/2013	Kim et al.	
	22	2013/0276031	10/17/2013	Oh et al.	
	23	2013/0297697	11/07/2013	Haimovitch et al.	
	24	2014/0040344	02/06/2014	Gehring et al.	
	25	2014/0223464	08/07/2014	Moran et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
(Use as many sheets as necessary)				First Named Inventor	Mohammed Selim
				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	2	of	4	Attorney Docket Number	6583-445

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	26	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55494, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-426-PCT) 8 pages
	27	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/36826, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-430-PCT) 8 pages
	28	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055342, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-434-PCT) 10 pages
	29	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55589, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-436-PCT) 8 pages
	30	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055289, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-444-PCT) 8 pages
	31	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055286, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-446-PCT) 8 pages
	32	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055294, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-450-PCT) 10 pages
	33	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55493, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-452-PCT) 8 pages
	34	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/036828, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-453-PCT) 12 pages
	35	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055340, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-454-PCT) 8 pages
	36	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55592, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-464-PCT) 10 pages
	37	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/036819, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-469-PCT) 8 pages
	38	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/036782, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-470-PCT) 8 pages
	39	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/36678, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-471-PCT) 8 pages
	40	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/036804, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-472-PCT) 12 pages
	41	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55405, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-478-PCT) 8 pages
	42	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055278, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-479-PCT) 8 pages

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				Filing Date	August 16, 2013
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(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	3	of	4	Attorney Docket Number	6583-445

	43	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55509, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-481-PCT) 8 pages
	44	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/CN2013/081639, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-487-PCT) 6 pages
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	47	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US13/55570, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-520-PCT) 7 pages
	48	Official Action for U.S. Patent Application No. 13/969,846, mailed Mar. 02, 2015 (Attorney's Ref. No. 6583-426) 21 pages
	49	Official Action for U.S. Patent Application No. 13/969,869, mailed Feb. 24, 2015 (Attorney's Ref. No. 6583-428) 22 pages
	50	Official Action for U.S. Patent Application No. 13/969,880, mailed Mar. 27, 2015 (Attorney's Ref. No. 6583-431) 14 pages
	51	Notice of Allowance for U.S. Patent Application No. 13/969,884, mailed Mar. 24, 2015 (Attorney's Ref. No. 6583-432) 16 pages
	52	Official Action for U.S. Patent Application No. 13/969,887, mailed Mar. 11, 2015 (Attorney's Ref. No. 6583-433) 24 pages
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	55	Official Action for U.S. Patent Application No. 13/968,913, mailed Apr. 01, 2015 (Attorney's Ref. No. 6583-448) 16 pages
	56	Official Action for U.S. Patent Application No. 13/968,983, mailed Mar. 12, 2015(Attorney's Ref. No. 6583-449) 21 pages
	57	Official Action for U.S. Patent Application No. 13/968,948, mailed Mar. 11, 2015 (Attorney's Ref. No. 6583-450) 13 pages
	58	Official Action for U.S. Patent Application No. 13/969,588, mailed Mar. 11, 2015 (Attorney's Ref. No. 6583-452) 12 pages
	59	Official Action for U.S. Patent Application No. 13/969,505, mailed Feb. 24, 2015 (Attorney's Ref. No. 6583-454) 9 pages
	60	Official Action for U.S. Patent Application No. 13/969,491, mailed Mar. 20, 2015 (Attorney's Ref. No. 6583-457) 25 pages
	61	Official Action for U.S. Patent Application No. 13/969,493, mailed Mar. 2, 2015 (Attorney's Ref. No. 6583-459) 15 pages

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	4	of	4	Attorney Docket Number	6583-445

	62	Official Action for U.S. Patent Application No. 13/969,179, mailed Mar. 12, 2015 (Attorney's Ref. No. 6583-478) 17 pages
	63	Official Action for U.S. Patent Application No. 13/968,709, mailed Feb. 23, 2015 (Attorney's Ref. No. 6583-493) 13 pages
	64	Notice of Allowance for U.S. Patent Application No. 13/968,610, mailed Feb. 24, 2015 (Attorney's Ref. No. 6583-499) 5 pages
	65	Official Action for U.S. Patent Application No. 13/968,630, mailed Mar. 27, 2015 (Attorney's Ref. No. 6583-504) 15 pages
	66	Official Action for U.S. Patent Application No. 13/969,508, mailed Mar. 05, 2015 (Attorney's Ref. No. 6583-510) 9 pages
	67	Official Action for U.S. Patent Application No. 13/969,510, mailed Feb. 24, 2015 (Attorney's Ref. No. 6583-511) 17 pages
	68	Official Action for U.S. Patent Application No. 13/969,504, mailed Feb. 23, 2015 (Attorney's Ref. No. 6583-526) 10 pages

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Electronic Patent Application Fee Transmittal

Application Number:	13968884
Filing Date:	16-Aug-2013
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Filer:	Douglas W. Swartz/Theresa Brown
Attorney Docket Number:	6583-445

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt	
EFS ID:	21961086
Application Number:	13968884
International Application Number:	
Confirmation Number:	1062
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Customer Number:	111285
Filer:	Douglas W. Swartz/Theresa Brown
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-445
Receipt Date:	02-APR-2015
Filing Date:	16-AUG-2013
Time Stamp:	20:39:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

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Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	6949
Deposit Account	191970
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	6583-426-PCT_IPRP_02-26-2015.pdf	1106846 860c6777f5abf66438e458d06717e5ffc6800ae9	no	8
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2	Non Patent Literature	6583-430-PCT_IPRP_02-26-2015.pdf	1400522 9b1cedd55afe8b295bfcf08b1a1a71f2eef2a1a2	no	8
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7	Non Patent Literature	6583-450-PCT_IPRP_02-26-2015.pdf	2111478 f26f7f41c8a089e611f630d1abda958a70a87fc4	no	10
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8	Non Patent Literature	6583-452-PCT_IPRP_02-26-2015.pdf	461083 a6d12706f7a3c8a3fd1fea612635486ca1b7bd8f	no	8
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17	Non Patent Literature	6583-479-PCT_IRPR_02-26-2015.pdf	460578 cae9799e0ea3572ba921e1fa73495b61cdf8c9e4	no	8
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23	Other Reference-Patent/App/Search documents	6583-426_FOA_03-02-2015.pdf	2185783 7550d9c9d8dd5e997d58f600bcf28ad652bc44d7	no	21
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24	Other Reference-Patent/App/Search documents	6583-428_FOA_02-24-2015.pdf	1973016 cda4a93695e1933ca71f02a15fd18a0957cfd438	no	22
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25	Other Reference-Patent/App/Search documents	6583-431_FOA_03-27-2015.pdf	1252501 a522de4a76671c93fc9bd3eec9d2c3952f80da2a	no	14
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26	Other Reference-Patent/App/Search documents	6583-432_NOA_03-24-2015.pdf	1697374 79ab08c8615570ecfcab6f68e4badddbc269651c	no	16
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27	Other Reference-Patent/App/Search documents	6583-433_FOA_03-11-2015.pdf	2106444 0fe31424aaaf84baa0c7d273f657e5fb6a0fefc6	no	24
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28	Other Reference-Patent/App/Search documents	6583-435_FOA_03-11-2015.pdf	1771359 d2afb94d82eab9e0e100254a35bad90f65afa9de	no	19
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37	Other Reference-Patent/App/Search documents	6583-478_OA_03-12-2015.pdf	541708 b1589d4e6cd911f43c0de9692f1219cf46af5cda	no	17
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44		6583-445_SB08_05.pdf	356742 876758f7047f0857ce6232abeac7553a23b63e2a	yes	7

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	Transmittal Letter	1	3
	Information Disclosure Statement (IDS) Form (SB08)	4	7

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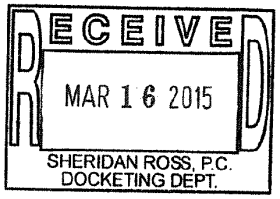
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Suite 1200
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Date of mailing *(day/month/year)*	
26 February 2015 (26.02.2015)	
Applicant's or agent's file reference	IMPORTANT NOTICE
6583-426-PCT	

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055494	18 August 2013 (18.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

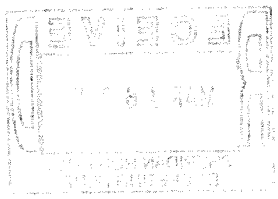
The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Kihwan Moon

e-mail: pt01.pct@wipo.int

Form PCT/IB/326 (January 2004)



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-426-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055494	International filing date *(day/month/year)* 18 August 2013 (18.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☒	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Kihwan Moon e-mail: pt01.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Tadd F. Wilson
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, Colorado 80202
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	16 APR 2014
Applicant's or agent's file reference: 6583-426-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US13/55494	18 August 2013 (18.08.2013)	17 August 2012 (17.08.2012)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/0482 (2014.01)
USPC - 715/851

Applicant Flextronics AP, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☒ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to th IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fom PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	24 March 2014 (24.03.2014)	Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55494

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

☒ the international application in the language in which it was filed.

☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

a. (means)

☐ on paper

☐ in electronic form

b. (time)

☐ in the international application as filed

☐ together with the international application in electronic form

☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

Form PCT/ISA/237 (Box No. I) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55494

Box No. IV Lack of unity of invention

1. ☒ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the appicable time limit:

   ☐ paid additional fees

   ☐ paid additional fees under protest and, where applicable, the protest fee

   ☐ paid additional fees under protest but the applicable protest fee was not paid

   ☒ not paid additional fees

2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is

   ☐ complied with

   ☒ not complied with for the following reasons:

Group I: Claims 1-2; Group II: Claims 3-4; Group II: Claims 5-6; Group IV: Claims 7-8; Group V: Claims 9-10; Group VI: Claims 11-12; Group VII: Claims 13-14

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fee must be paid.

Group I: Claims 1-2 are directed toward a method for providing a user interface in an intelligent television.
Group II: Claims 3-4 are directed toward a method for providing a user interface in an intelligent television.
Group III: Claims 5-6 are directed toward a method for providing a user interface in an intelligent television.
Group IV: Claims 7-8 are directed toward a method for providing a user interface in an intelligent television.
Group V: Claims 9-10 are directed toward a method for providing a user interface in an intelligent television.
Group VI: Claims 11-12 are directed toward a method for providing one of two types of user interfaces in an intelligent television.
Group VII: Claims 13-14 are directed toward a method for providing a user interface in an intelligent television.

The inventions listed as Groups I-VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The special technical features of Group I include a first series of user interfaces; receiving a back selection to reverse a navigation, which are not present in Groups II-VII. The special technical features of Group II include a first navigation bar; a second navigation bar; rendering a horizontal navigation bar; and rendering a different user interface for the second navigation bar, which are not present in Groups I and III-VII. The special technical features of Group III include a notification for a user; dismissing the notification; and providing a missing notification icon in the user interface, which are not present in Groups I-II and IV-VII. The special technical features of Group IV include the user interface including at least two regions; and providing an action based on a location within one of the least two regions, which are not present in Groups I-III and V-VII. The special technical features of Group V include determining a selection characteristic; determining a content characteristic; and based on the selection characteristic and the content characteristic, affecting change in the user interface, which are not present in Groups I-IV and VI-VII. The special technical features of Group VI include determining a type of user interface selection; a first type of selection; and a second type of selection, which are not present in Groups I-V and VII. The special technical features of Group VII include receiving a selection for an unrelated search that does not apply to the first content; and providing a search panel above a portion of the content to search for a second content, which are not present in Groups I-VI.

The common technical feature shared by Groups I-VII is a method and system for providing a user interface in an intelligent television, the method and system comprising: receiving, by a processor of the intelligent television, a selection associated with content in the intelligent television; presenting a second user interface different than a first user interface. However, this common feature is previously disclosed by US 2012/0210239 A1 (Kim). Kim discloses a method and system for providing a user interface in an intelligent television (a first GUI (user interface) displayed on a screen of a Smart TV; paragraphs [0121] and [0247]), the method and system comprising: receiving, by a processor (paragraph [0177]) of the intelligent television, a selection associated with content in the intelligent television (first user action (selection); paragraph [0249]); presenting a second user interface different than a first user interface (second GUI; paragraph [0249]).

Since the common technical feature is previously disclosed by the Kim reference, this common feature is not special and so Groups I-VII lack unity.

4. Consequently, this opinion has been established in respect of the following parts of the international application:

   ☐ all parts

   ☒ the parts relating to claims Nos. 1 and 2

Form PCT/ISA/237 (Box No. IV) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55494

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	None	YES
	Claims	1-2	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-2	NO
Industrial applicability (IA)	Claims	1-2	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-2 lack novelty under PCT Article 33(2) as being anticipated by US 2012/0174039 A1 to Rhoads et al. (hereinafter "Rhoads").

As to claim 1, Rhoads discloses a method for providing a user interface in an intelligent television, the method comprising: receiving, by a processor of the intelligent television, a selection associated with content in the intelligent television (receiving by the control circuitry of a smart TV comprising a microprocessor (receiving, by a processor of the intelligent television) a user selection of a media identifier from multiple media identifiers by the smart TV (a selection associated with content in the intelligent television), paragraphs [0006], [0026], [0049]); in response to the selection, presenting the user interface associated with the content, wherein the user interface is associated with a first series of user interfaces (In response to the user's indication (in response to the selection), the media guidance application may provide a display screen with media guidance data (presenting the user interface associated with the content); an options region may allow the user to access different types of content, media guidance application displays, and/or media guidance application features (wherein the user interface is associated with a first series of user interfaces), paragraph [0028]); receiving a back selection to reverse a navigation through the first series of user interfaces (the navigation indicator may allow a user to navigate back (receiving a back selection to reverse a navigation) through a hierarchical structure of media identifiers to the location of the media asset (through the first series of user interfaces), paragraph [0023]); and presenting a second user interface, wherein the second user interface is in a second series of user interfaces (a second navigation indicator is displayed (and presenting a second user interface) that represents a path navigating through the hierarchy of the interactive media guidance application to the second media asset (wherein the second user interface is in a second series of user interfaces), claims 5, 6), and wherein the first series of user interfaces is different from the second series of user interfaces (wherein the first navigation indicator comprises a first navigation cue that identifies which media identifier to select from a first portion of the plurality of media identifiers (wherein the first series of user interfaces) second navigation cue that identifies which media identifier to select from a second portion of the plurality of media identifier (is different from a second series of user interfaces), claim 22).

As to claim 2, Rhoads discloses an intelligent television system comprising: a memory operable to store social media data (memory storage may be used to store various types of content including social media content (a memory operable to store social media data), paragraphs [0025], [0051]); a processor in communication with the memory (a processor with an application stored in memory (a processor in communication with the memory), paragraph [0049]), the processor operable to: execute a user interface application (the processor executes instruction for the media guidance application (executes a user interface application), paragraph [0049]), the user interface application operable receive, by a processor of the intelligent television, a selection associated with content in the intelligent television (the media guidance application (the user interface application) receives by the control circuitry of a smart TV comprising a microprocessor (operable to receive, by a processor of the intelligent television) a user selection of a media identifier from multiple media identifiers by the smart TV (a selection associated with content in the intelligent television), paragraphs [0006], [0026], [0049]); in response to the selection, present the user interface associated with the content, wherein the user interface is associated with a first series of user interfaces (In response to the user's indication (in response to the selection), the media guidance application may provide a display screen with media guidance data (present the user interface associated with the content); an options region may allow the user to access different types of content, media guidance application displays, and/or media guidance application features (wherein the user interface is associated with a first series of user interfaces), paragraph [0028]); receive a back selection to reverse a navigation through the first series of user interfaces (the navigation indicator may allow a user to navigate back (receive a back selection to reverse a navigation) through a hierarchical structure of media identifiers to the location of the media asset (through the first series of user interfaces), paragraph [0023]); and present a second user interface, wherein the second user interface is in a second series of user interfaces (a second navigation indicator is displayed (and present a second user interface) that represents a path navigating through the hierarchy of the interactive media guidance application to the second media asset (wherein the second user interface is in a second series of user interfaces), claims 5, 6), and wherein the first series of user interfaces is different from the second series of user interfaces (wherein the first navigation indicator comprises a first navigation cue that identifies which media identifier to select from a first portion of the plurality of media identifiers (wherein the first series of user interfaces) second navigation cue that identifies which media identifier to select from a second portion of the plurality of media identifier (is different from a second series of user interfaces), claim 22).

Claims 1-2 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

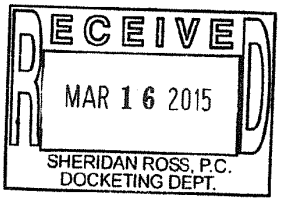
PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:



WILSON, Tadd, F.
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)*	
26 February 2015 (26.02.2015)	
Applicant's or agent's file reference: 6583-430-PCT	IMPORTANT NOTICE

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/036826	16 April 2013 (16.04.2013)	17 August 2012 (17.08.2012)

Applicant: FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

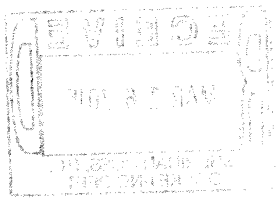
The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Nora Lindner

e-mail: pt05.pct@wipo.int

Form PCT/IB/326 (January 2004)



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-430-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/036826	International filing date *(day/month/year)* 16 April 2013 (16.04.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 6 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Nora Lindner e-mail: pt05.pct@wipo.int

Form PCT/IB/373 (January 2004)

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Tadd F. Wilson
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	17 JUN 2013
Applicant's or agent's file reference 6583-430-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US13/36826	16 April 2013 (16.04.2013)	14 June 2012 (14.06.2012)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 5/44543; G06F 8/34 (2013.01)
USPC - 715/763; 725/39

Applicant Flextronics AP, LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	6 June 2013 (06.06.2013)	Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/36826

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/36826

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	5-8, 13-15 and 18-20	YES
	Claims	1-4, 9-12 and 16-17	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-4, 9-12 and 16-17 lack novelty under PCT Article 33(2) as being anticipated by US 8,201,104 B2 Yamamoto et al. (hereinafter "Yamamoto").

As to claim 1, Yamamoto discloses a method for associating badges with an item of content or a content source, the method comprising (a plurality of function icons (associating badges) representing respective types of content playing functions, column 2, lines 32-35): receiving a selection associated with the item of content or the content source (A game icon 62 is an icon that represents the game running function and is selected to run a game program (selection associated with a item/game program), column 9, lines 8-10); based on the selection, associating a badge with the item of content or the content source (a plurality of function icons (associating badges) representing respective types of content playing functions, column 2, lines 32-35), wherein a badge is a user interface device having visual indicia that indicates the item of content or the content source includes a feature, a state, or a designation (A moving image icon, which is a function (feature) icon displayed in an area of intersection in which the array of function icons and the array of content icons (item of content) intersect, is highlighted by a color different from that of the other function icons (when the state changes) and by an enlarged view, abstract).

As to claim 2, Yamamoto discloses the method as defined in claim 1, further comprising receiving a second selection for a user interface containing information about the item of content or the content source (a display controller which generates the image data for the on-screen menu with a two-dimensional array which includes a first array comprising the plurality of function icons arranged in a specific direction on a screen and which also includes a second array comprising the plurality of content icons (item of content) in a direction intersecting the specific direction on the screen, column 2, lines 2-9).

As to claim 3, Yamamoto discloses the method as defined in claim 2, further comprising, based on the second selection, presenting the information about the item of content or the content source (The display controller displays the second array to intersect the first array at a position of one of the function icons selected by the user, and, if the contents are hierarchically stored in the storage, displays an expanded view (presenting the information) of the content icons (item of content) in the second array such that the hierarchy is represented visually or auditorily, column 2, lines 9-14).

As to claim 4, Yamamoto discloses the method as defined in claim 3, further comprising, based on the second selection, presenting the badge, associated with the item of content or the content source, with the information the item of content or the content source (the contents are hierarchically stored in the storage, displays an expanded view of the content icons (badge) in the second array such that the hierarchy is represented visually or auditorily and the term "content" refers to information including moving images, still images, audio, texts and programs that are played, displayed or run by respective types of information conveying means, column 2, lines 9-19).

As to claim 9, Yamamoto discloses the method as defined in claim 4, further disclose wherein the state is a paused playback (The instruction determination module 94 acquires instructions such as "content playing", "pause playing" (pause playback) and "invoke on-screen menu" entered by the user manipulating the controller 42, column 4, line 66 and column 5, line 3).

As to claim 10, Yamamoto discloses the method as defined in claim 3, further discloses wherein the badge is an in-progress badge (The instruction determination module 94 acquires instructions such as "content playing" (in progress icon), "pause playing" (pause playback) and "invoke on-screen menu" entered by the user manipulating the controller 42, column 4, line 66 and column 5, line 3).

As to claim 11, Yamamoto discloses a tangible computer readable medium having instructions stored thereon, wherein when executed by a processor cause the processor to execute a method (computer readable medium having stored therein a computer program executable by a computer for displaying an on-screen menu in a content player, column 25, lines 21-25), the instructions comprising: instructions to receive a selection associated with the item of content or the content source (A game icon 62 is an icon that represents the game running function and is selected to run a game program (selection associated with a item/game program), column 9, lines 8-10); based on the selection, instructions to associate a badge with the item of content or the content source (a plurality of function icons (associating badges) representing respective types of content playing functions, column 2, lines 32-35), wherein a badge is a user interface device having visual indicia that indicates the item of content or the content source includes a feature, a state, or a designation (A moving image icon, which is a function (feature) icon displayed in an area of intersection in which the array of function icons and the array of content icons intersect, is highlighted by a color different from that of the other function icons (when the state changes) and by an enlarged view, abstract).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/36826

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

-***-Continued from Box No. V: Citations and Explanations-***-

As to claim 12, Yamamoto discloses the tangible computer readable medium as defined in claim 11, further comprising: instructions to receive a second selection for a user interface containing information about the item of content or the content source (a display controller which generates the image data for the on-screen menu with a two-dimensional array which includes a first array comprising the plurality of function icons arranged in a specific direction on a screen and which also includes a second array comprising the plurality of content icons in a direction intersecting the specific direction on the screen, column 2, lines 2-9); based on the second selection, instructions to present the information about the item of content or the content source (The display controller displays the second array to intersect the first array at a position of one of the function icons selected by the user, and, if the contents are hierarchically stored in the storage, displays an expanded view of the content icons in the second array such that the hierarchy is represented visually or auditorily, column 2, lines 9-14); and based on the second selection, instructions to present the badge, associated with the item of content or the content source, with the information the item of content or the content source (the contents are hierarchically stored in the storage, displays an expanded view of the content icons (badge) in the second array such that the hierarchy is represented visually or auditorily and the term "content" refers to information including moving images, still images, audio, texts and programs that are played, displayed or run by respective types of information conveying means, column 2, lines 9-19).

As to claim 16, Yamamoto discloses an intelligent television comprising: a display; a memory (a television set 30 onscreen display with a onscreen buffer 102 that temporally stores storage/memory) column 5, lines 53-57); a processor in communication with the memory and the display, the processor operable to (the processor 108 displays content icons, column 8, lines 10-12): receive a selection associated with the item of content or the content source (a plurality of function icons (associating badges) representing respective types of content playing functions, column 2, lines 32-35); based on the selection, associate a badge with the item of content or the content source, wherein a badge is a user interface device having visual indicia that indicates the item of content or the content source includes a feature, a state, or a designation (A moving image icon, which is a function icon displayed in an area of intersection in which the array of function icons and the array of content icons intersect, is highlighted by a color different from that of the other function icons and by an enlarged view, abstract).

As to claim 17, Yamamoto discloses the intelligent television as defined in claim 16, wherein the processor is further operable to: receive a second selection for a user interface containing information about the item of content or the content source (a display controller which generates the image data for the on-screen menu with a two-dimensional array which includes a first array comprising the plurality of function icons arranged in a specific direction on a screen and which also includes a second array comprising the plurality of content icons in a direction intersecting the specific direction on the screen, column 2, lines 2-9); based on the second selection, present the information about the item of content or the content source (The display controller displays the second array to intersect the first array at a position of one of the function icons selected by the user, and, if the contents are hierarchically stored in the storage, displays an expanded view of the content icons in the second array such that the hierarchy is represented visually or auditorily, column 2, lines 9-14); and based on the second selection, present the badge, associated with the item of content or the content source, with the information the item of content or the content source (the contents are hierarchically stored in the storage, displays an expanded view of the content icons (badge) in the second array such that the hierarchy is represented visually or auditorily and the term "content" refers to information including moving images, still images, audio, texts and programs that are played, displayed or run by respective types of information conveying means, column 2, lines 9-19).

Claims 5-8, 13-15 and 18-20 lack an inventive step under PCT Article 33(3) as being obvious over Yamamoto in view of US 8151215 B2 Baurmann et al. (hereinafter "Baurmann").

As to claim 5, Yamamoto discloses the method as defined in claim 4, Yamamoto fails to disclose wherein the designation is a favorite designation. Baurmann discloses wherein the designation is a favorite designation (icons that arc associated with favorite TV channels, column 1, lines 29-34). It would have been obvious to one skilled in the art at the time of the invention to modify the Yamamoto system to include the designation is a favorite designation features taught by Baurmann because doing so would make the Yamamoto system more flexible and user-friendly.

As to claim 6, the combination of Yamamoto and Baurmann discloses the method as defined in claim 5. Yamamoto fails to disclose wherein the badge is a star or a banner. Baurmann discloses wherein the badge is a star or a banner (the objects or icons 46, can be invoked from the remote control 22 by pressing the favorites key 30. If there is on-screen display (OSD) text on the screen e.g., a banner when Favorites is pressed, the OSD can be removed and the favorites icons 46 displayed, column 4, lines 44-49). It would have been obvious to one skilled in the art at the time of the invention to modify the Yamamoto system to include the designation is a star or a banner designation features taught by Baurmann because doing so would make the Yamamoto system more flexible and user-friendly.

As to claim 7, the combination of Yamamoto and Baurmann discloses the method as defined in claim 4. Yamamoto fails to disclose wherein the state is as new content. Baurmann discloses wherein the state is as new content (items may display when user first accesses New Favorites (new content), column 6, lines 54-56). It would have been obvious to one skilled in the art at the time of the invention to modify the Yamamoto system to include the designation of new content features taught by Baurmann because doing so would make the Yamamoto system more flexible and user-friendly.

As to claim 8, the combination of Yamamoto and Baurmann discloses the method as defined in claim 7. Yamamoto fails to disclose wherein the badge is a fresh badge. Baurmann discloses wherein the badge is a fresh badge (the GUI 42 revolves left or right across the display, moving a new icon (fresh badge) into the center-most focused spot and enlarging it relative to the other icons, column 3, lines 46-50). It would have been obvious to one skilled in the art at the time of the invention to modify the Yamamoto system to include the designation of fresh badge (new icon) features taught by Baurmann because doing so would make the Yamamoto system more flexible and user-friendly.

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/36826

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

-***-Continued from Previous Supplemental Box-***-

As to claims 13 and 18, Yamamoto discloses the tangible computer readable medium as defined in claims 12 and 17. Yamamoto fails to disclose wherein: if the designation is a favorite designation, the badge is a star or a banner; if the state is as new content, the badge is a fresh badge; and if the state is a paused playback, the badge is an in-progress badge. Baurmann discloses wherein: if the designation is a favorite designation (icons that are associated with favorite TV channels, column 1, lines 29-34), the badge is a star or a banner (the objects or icons 46, can be invoked from the remote control 22 by pressing the favorites key 30. If there is on-screen display (OSD) text on the screen e.g., a banner when <Favorites> is pressed, the OSD can be removed and the favorites icons 46 displayed, column 4, lines 44-49); if the state is as new content (items may display when user first accesses New Favorites (new content), column 6, lines 54-56), the badge is a fresh badge (the GUI 42 revolves left or right across the display, moving a new icon (fresh badge) into the center-most focused spot and enlarging it relative to the other icons, column 3, lines 46-50); and if the state is a paused playback (The instruction determination module 94 acquires instructions such as "content playing", "pause playing" (pause playback) and "invoke on-screen menu" entered by the user manipulating the controller 42, column 4, line 66 and column 5, line 3), the badge is an in-progress badge (The instruction determination module 94 acquires instructions such as "content playing" (in progress icon), "pause playing" (pause playback) and "invoke on-screen menu" entered by the user manipulating the controller 42, column 4, line 66 and column 5, line 3). It would have been obvious to one skilled in the art at the time of the invention to modify the Yamamoto system to include favorites, a star or banner, new content, fresh badge, paused playback and in-progress features taught by Baurmann because doing so would make the Yamamoto system more flexible and user-friendly.

As to claims 14 and 19, the combination of Yamamoto and Baurmann discloses the tangible computer readable medium as defined in claims 13 and 18. Yamamoto further discloses wherein the badge is presented in one of a panel, an electronic programming guide, or a menu (A broadcast icon 58 is an icon that represents the broadcast display function and is selected to view a television program input via the antenna cable 32 and The content information 65 may include the name of a broadcasting station, the name of a broadcast channel, the title of a program or broadcast schedule acquired based on Electronic Program Guide (EPG) data, column 8 line 66 – column 9 line 7).

As to claims 15 and 20, Yamamoto discloses the tangible computer readable medium as defined in claims 12 and 19. Yamamoto fails to disclose wherein the second selection is a paused playback and the badge is an in-progress indicator presented in a panel with a paused content display. Baurmann discloses wherein the second selection is a paused playback and the badge is an in-progress indicator presented in a panel with a paused content display (The instruction determination module 94 acquires instructions such as "content playing" (in-progress indicator), "pause playing" (pause playback) and "invoke on-screen menu" (presented n a panel) entered by the user manipulating the controller 42, column 4, line 66 and column 5, line 3). It would have been obvious to one skilled in the art at the time of the invention to modify the Yamamoto system to include paused playback and in-progress features taught by Baurmann because doing so would make the Yamamoto system more flexible and user-friendly.

Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

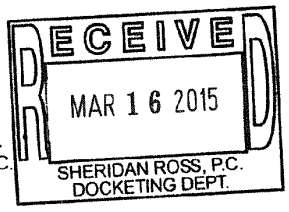
PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:



WILSON, Tadd, F.
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)*	
26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-434-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055342	16 August 2013 (16.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

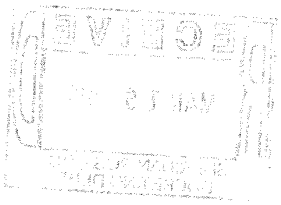
The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Athina Nickitas-Etienne

e-mail: pt04.pct@wipo.int

Form PCT/IB/326 (January 2004)



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-434-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055342	International filing date *(day/month/year)* 16 August 2013 (16.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☒	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Athina Nickitas-Etienne e-mail: pt04.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: TADD F. WISON
SHERIDAN ROSS P.C.
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	17 APR 2014
Applicant's or agent's file reference 6583-434-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055342	16 August 2013	17 August 2012

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 5/445 (2014.01)
USPC - 725/56

Applicant FLEXTRONICS AP, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☒ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	09 April 2014	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055342

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

   ☐ on paper

   ☐ in electronic form

   b. (time)

   ☐ in the international application as filed

   ☐ together with the international application in electronic form

   ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055342

Box No. IV Lack of unity of invention

1. ☒ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the appicable time limit:

   ☐ paid additional fees

   ☐ paid additional fees under protest and, where applicable, the protest fee

   ☐ paid additional fees under protest but the applicable protest fee was not paid

   ☒ not paid additional fees

2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is

   ☐ complied with

   ☒ not complied with for the following reasons:

See Supplemental Box

4. Consequently, this opinion has been established in respect of the following parts of the international application:

   ☐ all parts

   ☒ the parts relating to claims Nos. 1-2

Form PCT/ISA/237 (Box No. IV) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055342

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	None	YES
	Claims	1, 2	NO
Inventive step (IS)	Claims	None	YES
	Claims	1, 2	NO
Industrial applicability (IA)	Claims	1, 2	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-2 lack novelty under PCT Article 33(2) as being anticipated by Wetzer et al., hereinafter referred to as Wetzer.

Regarding claims 1, 2, Wetzer discloses a method for providing an indication of a linkage to a poster of social media [claim 1] (further fig.29 F shows a gettogether session interface wherein participants who accept the invitation join a session, that allows participants to chat with each other through the text chat interface, further the interface shows messages 2927 between users, wherein a message from a first user is displayed with the name of that user i.e. "Jennifer Coulter" [first visual indicia indicate the linkage between a first poster of the first posting] and a message from a second user is displayed with the name of that user i.e. "Mark Daniels", para 0209, 0210), the method comprising, and an intelligent television (user device 118 (e.g., an intelligent TV) is a user platform operated by a user to facilitate display of and interaction with secure user-centric information, Fig 1, para 0050, 0059) system [claim 2] comprising: a memory operable to store social media data; a processor in communication with the memory, the processor operable to (user devices 118 serve as a platform operated by a user 116 to facilitate display and interaction, the user devices 118 of user 116 includes a portable device/tablet and an intelligent television, mobile device, para 0059; fig.22 shows an alert notification appears in the display of the tablet device 1310, indicating that a friend is also watching Fringe [an intelligent television used to view social media notifications is interpreted as stores social media data with a processor in communication to a memory], para 0014, 0195): receiving, by a processor of an intelligent television (user device 118 (e.g., an intelligent TV) is a user platform operated by a user to facilitate display of and interaction with secure user-centric information, Fig 1, para 0050, 0059), two or more social media postings (user devices 118 serve as a platform operated by a user 116 to facilitate display and interaction, the user devices 118 of user 116 includes a portable device/tablet and an intelligent television, mobile device, para 0059; fig.29A shows a user 116 watching a show on TV 1340 using a tablet device 1310, further fig.29C shows an interface where a user invites other users/participants who are contacts of the user 116, para 0202, 0203; further fig.29 F shows a gettogether session interface wherein participants who accept the invitation join a session, that allows participants to chat with each other through the text chat interface, further the interface shows messages 2927 between users "Jennifer Coulter" and "Mark Daniels" [two or more social media postings] , para 0209, 0210); execute a user interface application in communication with the social media application, the user interface application operable to [claim 2] (further fig.29 F shows a gettogether session interface wherein participants who accept the invitation join a session, that allows participants to chat with each other through the text chat interface, further the interface shows messages 2927 between users "Jennifer Coulter" and "Mark Daniels" [two or more social media postings] , para 0209, 0210): providing a visual representation of the social media postings (further fig.29 F shows a gettogether session interface wherein participants who accept the invitation join a session, that allows participants to chat with each other through the text chat interface, further the interface shows messages 2927 between users "Jennifer Coulter" and "Mark Daniels" [providing a visual representation of two or more social media postings] , para 0209, 0210); in the visual representation, providing a first visual indicia for a first posting and a second visual indicia for a second posting (further fig.29 F shows a gettogether session interface wherein participants who accept the invitation join a session, that allows participants to chat with each other through the text chat interface, further the interface shows messages 2927 between users, wherein a message from a first user is displayed with the name of that user i.e. "Jennifer Coulter" [first visual indicia for a first posting] and a message from a second user is displayed with the name of that user i.e. "Mark Daniels" [second visual indicia for a second posting], para 0209, 0210); and wherein the first and second visual indicia are different and indicate the linkage between a first poster of the first posting or a second poster of the second posting (further fig.29 F shows a gettogether session interface wherein participants who accept the invitation join a session, that allows participants to chat with each other through the text chat interface, further the interface shows messages 2927 between users, wherein a message from a first user is displayed with the name of that user i.e. "Jennifer Coulter" [first visual indicia indicate the linkage between a first poster of the first posting] and a message from a second user is displayed with the name of that user i.e. "Mark Daniels" [second visual indicia different from first visual indicia], the chat session messages between the users provides the users to communicate with each other by sending texts, pictures and videos, para 0209, 0210).

Claims 1-2 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055342

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-2, drawn to a method for providing an indication of a linkage to a poster of social media, an intelligent television comprising: providing a first visual indicia for a first posting and a second visual indicia for a second posting wherein the first and second visual indicia are different and indicate the linkage between a first poster of the first posting or a second poster of the second posting.
Group II, claims 3-4, drawn to a method for providing a rooting section for an intelligent television, comprising: based on a received selection of sporting content, providing a first visual representation of one or more of the social media postings associated with a first team affiliation and providing a second visual representation of one or more of the social media postings associated with a second team affiliation.
Group III, claims 5-6, drawn to a method for providing social media on an intelligent television, comprising: identifying a user of the intelligent television and registering the user with one or more social media sites, and providing social media posting associated with the user on an user interface of the intelligent television.
Group IV, claims 7-8, drawn to a method for providing social media information on an intelligent television, comprising: determining the availability of social media for the selected programming and providing a visual representation of one or more of the social media postings associated with selected programming.
Group V, claims 9-10, drawn to a method for providing social media information on an intelligent television, comprising: receiving a second selection to change a volume of social media, and changing an amount of social media presented in response to the second selection.
Group VI, claims 11-12, drawn to a method for providing social media information on an intelligent television, the comprising: the intelligent television discovering a device also connected to the network, connecting the device to the intelligent television, a user pushes a social media message from the device, and displaying the social media message on the intelligent television.
Group VII, claims 13-14, drawn to a method for providing media on an intelligent television, comprising: retrieving available media from one or more social media sources and from one or more local sources and presenting together media from both one or more social media sources and one or more local sources.
Group VIII, claims 15-16, drawn to a method for providing social media on an intelligent television, comprising: receiving a programming change input and providing determining the type of programming changing input one of two or more user interfaces that include a presentation of social media information.
Group IX, claims 17-18, drawn to a method for providing social media on an intelligent television, comprising: pausing the media playback on the intelligent television while the media continues to be presented in real-time and during the pause, receiving one or more social media postings associated with the media, and storing the one or more social media postings in a time sequence correlated to the media presentation.
Group X, claims 19-20, drawn to a method for providing social media on an intelligent television, comprising: receiving a selection of a control device on a remote control associated with an intelligent television and determining whether the selection is a first type or a second type, and providing a first user interface at the bottom of a display of the intelligent television wherein the first user interface provides at least one social media posting if the selection is a first type, and providing a second user interface at the top of the display of the intelligent television, wherein the second user interface provides information associated with content being presented in the display if the selection is a second type.
Group XI, claims 21-22, drawn to a method for publishing social media by an intelligent television, the comprising: receiving a selection of a control device associated with the intelligent television and automatically publishing information about the content to a social media site based on the selection.
Group XII, claim 23-24, drawn to a method for providing social media on an intelligent television, comprising: determining a state associated with a social media posting and providing a user interface for the social media application, having the social media posting displayed based on the state.

The inventions listed as Groups I-XII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I invention: providing a first visual indicia for a first posting and a second visual indicia for a second posting wherein the first and second visual indicia are different and indicate the linkage between a first poster of the first posting or a second poster of the second posting as claimed therein is not present in the invention of Groups II-XII. The special technical feature of the Group II invention: based on a received selection of sporting content, providing a first visual representation of one or more of the social media postings associated with a first team affiliation and providing a second visual representation of one or more of the social media postings associated with a second team affiliation as claimed therein is not present in the invention of Groups I, III-XII. The special technical feature of the Group III invention: identifying a user of the intelligent television and registering the user with one or more social media sites, and providing social media posting associated with the user on an user interface of the intelligent television as claimed therein is not present in the invention of Groups I, II, IV-XII. The special technical feature of the Group IV invention: determining the availability of social media for the selected programming and providing a visual representation of one or more of the social media postings associated with selected programming as claimed therein is not present in the invention of Groups I, II, III or V-XII. The special technical feature of the Group V invention: receiving a second selection to change a volume of social media, and changing an amount of social media presented in response to the second selection as claimed therein is not present in the invention of Groups I-IV, VI-XII. The special technical feature of the Group VI invention: the intelligent television discovering a device also connected to the network, connecting the device to the intelligent television, a user pushes a social media message from the device, and displaying the social media message on the intelligent television as claimed therein is not present in the invention of Groups I-V, VII-XII. The special technical feature of the Group VII invention: retrieving available media from one or more social media sources and from one or more local sources and presenting together media from both one or more social media sources and one or more local sources as claimed therein is not present in the invention of Groups I-VI or VIII-XII. The special technical feature of the Group VIII invention: receiving a programming change input and providing determining the type of programming changing input one of two or more user interfaces that include a presentation of social media information as claimed therein is not present in the invention of Groups I-VII or IX-XII.

[See Continuation on Next Extra Sheet]

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055342

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

The special technical feature of the Group IX invention: pausing the media playback on the intelligent television while the media continues to be presented in real-time and during the pause, receiving one or more social media postings associated with the media, and storing the one or more social media postings in a time sequence correlated to the media presentation as claimed therein is not present in the invention of Groups I-VIII or X-XII. The special technical feature of the Group X invention: receiving a selection of a control device on a remote control associated with an intelligent television and determining whether the selection is a first type or a second type, and providing a first user interface at the bottom of a display of the intelligent television wherein the first user interface provides at least one social media posting if the selection is a first type, and providing a second user interface at the top of the display of the intelligent television, wherein the second user interface provides information associated with content being presented in the display if the selection is a second type as claimed therein is not present in the invention of Groups I-IX or XI-XII. The special technical feature of the Group XI invention: receiving a selection of a control device associated with the intelligent television and automatically publishing information about the content to a social media site based on the selection as claimed therein is not present in the invention of Groups I-X or XII. The special technical feature of the Group XII invention: determining a state associated with a social media posting and providing a user interface for the social media application, having the social media posting displayed based on the state as claimed therein is not present in the invention of Groups I-XI.

Groups I- XII lack unity of invention because even though the inventions of these groups require the technical feature of visual representation of social media posting on an intelligent TV, this technical feature is not a special technical feature as it does not make a contribution over the prior art in view of US 2012/0154449 A1 (RAMAGEM et al) 21 June 2012 (21.06.2012).

US 2012/0154449 A1 to RAMAGEM et al discloses a visual whiteboard as an application or component for operation on a smart TV (para. 0007) and social networking techniques, devices, systems and software which can be used in conjunction with social networks associated with a television (para 0002) and teaches visual representation of social media posting on an intelligent TV (content identifiers or other group information can be posted to the visual whiteboard by the authorized users for subsequent display on the corresponding smart [intelligent] TV, para 0007; receiving media items from various media sources and service providers, para 0021; mechanism for direct sharing of information via the social graph ...finding a funny cat video posted on a large site like Digg, para 0038; that a content identifier (hyperlink to a video), and various notes posted to the visual whiteboard by authorized group members, para 0055; see also para 0030, 0031 for using the visual whiteboard operating on an intelligent TV and enabling an active user engaging in various aspects of social networking on the intelligent TV, including searching for updates from social networks [that implies receiving and visual representation of social postings on the intelligent TV).

Since none of the special technical features of the Group I-XII inventions are found in more than one of the inventions, unity of invention is lacking.

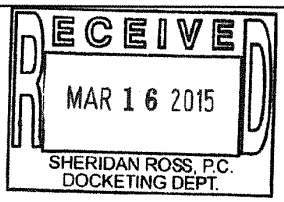
PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:



WILSON, Tadd, F.
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)*	
26 February 2015 (26.02.2015)	
Applicant's or agent's file reference	IMPORTANT NOTICE
6583-436-PCT	

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055589	19 August 2013 (19.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

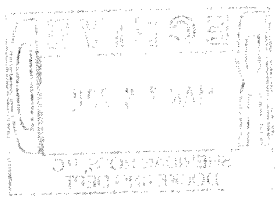
The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Kihwan Moon

e-mail: pt01.pct@wipo.int

Form PCT/IB/326 (January 2004)



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-436-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055589	International filing date *(day/month/year)* 19 August 2013 (19.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☒	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Kihwan Moon e-mail: pt01.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Tadd F. Wilson
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, Colorado 80202
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	19 DEC 2013

Applicant's or agent's file reference	FOR FURTHER ACTION
6583-436-PCT	See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US13/55589	19 August 2013 (19.08.2013)	17 August 2012 (17.08.2012)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/0 (2013.01) -
USPC - 725/46

Applicant Flextronics AP, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☒ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to th IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fom PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	26 November 2013 (26.11.2013)	Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55589

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55589

Box No. IV Lack of unity of invention

1. ☒ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the appicable time limit:
   - ☐ paid additional fees
   - ☐ paid additional fees under protest and, where applicable, the protest fee
   - ☐ paid additional fees under protest but the applicable protest fee was not paid
   - ☒ not paid additional fees
2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
   - ☐ complied with
   - ☒ not complied with for the following reasons:

Group I: Claims 1, 2; Group II: Claims 3, 4; Group III: Claims 5, 6; Group IV: Claims 7, 8; Group V: Claims 9, 10; Group VI: Claims 11, 12; Group VII: Claims 13, 14; Group VIII: Claims 15, 16

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fee must be paid.

Group I: Claims 1 and 2 are directed toward a method for providing video-on-demand in an intelligent television including determining metadata characteristics for a content and providing a first view of the VOD content.

Group II: Claims 3 and 4 are directed toward a method for providing video-on-demand in an intelligent television including a first, second and third selections and provide different views of the VOD content.

Group III: Claims 5 and 6 are directed toward a method for providing video-on-demand in an intelligent television including determining whether a second selection is for showcase content, movie content, television content, or variety content and provide a second user interface having content associated.

Group IV: Claims 7 and 8 are directed toward a method for providing video-on-demand in an intelligent television including receiving a first selection to filter the VOD content and providing a second collection view of the filtered content.

Group V: Claims 9 and 10 are directed toward a method for providing video-on-demand in an intelligent television including receiving a selection of a television series from the catalog view and if there is only one season, providing a first digest view of the season.

Group VI: Claims 11 and 12 are directed toward a method for providing one of two types of user interfaces in an intelligent television including receiving a second selection of an episode and playing the episode in a series player.

Group VII: Claims 13 and 14 are directed toward a method for providing video-on-demand in an intelligent television including receiving a selection to sort the items of content based on a watched status.

Group VIII: Claims 15 and 16 are directed toward a method for providing video-on-demand in an intelligent television including if the user has previously watched the content, prompting the user if the user desires to resume watching the content.

The inventions listed as Groups I-VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The common technical feature shared by Groups I-VIII are a method for providing video-on-demand in an intelligent television including sorting the contents. However, this common feature is previously disclosed by US 2006/0031875 A1 (YU). Yu discloses a method for providing video-on-demand in an intelligent television including sorting the contents (an apparatus and method for supplying electronic programs for video on demand services including sorting the received service data according to a predetermined sorting condition and display through a predetermined graphical user interface, abstract).

Since the common technical feature is previously disclosed by the Yu reference, this common feature is not special and so Groups I-VIII lack unity.

4. Consequently, this opinion has been established in respect of the following parts of the international application:
   - ☐ all parts
   - ☒ the parts relating to claims Nos. 1 and 2

Form PCT/ISA/237 (Box No. IV) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55589

Box No. V. Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	NONE	YES
	Claims	1 and 2	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1 and 2	NO
Industrial applicability (IA)	Claims	1 and 2	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1 and 2 lack novelty under PCT Article 33(2) as being anticipated by US 2008/0141307 A1 (Whitehead).

As per claim 1, Whitehead discloses a method for providing video-on-demand (VOD) in an intelligent television (providing VOD in a media player 115 such as a HDTV, figure 1 and paragraphs [0012], [0016], [0022] and [0023]), the method comprising: receiving, by a processor of the intelligent television, content for VOD (receiving by the HDTV processor content of the VOD, figure 1 and paragraphs [0012], [0016], [0022] and [0023]); determining metadata characteristics for the content (determining certain content characteristics/profile of metadata such as advertising content or media content, paragraphs [0025] and [0097]); storing the metadata characteristics with the content in a database for VOD content (advertising metadata 141 is stored in an advertising database 142 and media metadata 150 is stored in a media database 156, paragraphs [0027] and [0029]); and providing a first view of the VOD content based on the metadata characteristics (providing VOD content to be viewed on the HDTV based on whether the content is media or advertisements, paragraphs [0016], [0025], [0026] and [0097]).

As per claim 2, Whitehead discloses an intelligent television system (a HDTV system, figure 1 and paragraphs [0012] and [0016]) comprising: a memory operable to store video-on-demand (VOD) content (a database for storing VOD content, paragraph [0022]); a processor in communication with the memory (a processing device 110 interact with a recording memory 112, figure 1 and paragraph [0012]), the processor operable to: execute a VOD data service (the processing device 110 can execute the VOD, paragraph [0022]) operable to: receive content for VOD (receiving content for the VOD, figure 1 and paragraphs [0012], [0016], [0022] and [0023]); determine metadata characteristics for the content (determining certain content characteristics/profile of metadata such as advertising content or media content, paragraphs [0025] and [0097]); store the metadata characteristics with the content in a database for VOD content (advertising metadata 141 is stored in an advertising database 142 and media metadata 150 is stored in a media database 156, paragraphs [0027] and [0029]); and execute a user interface application in communication with the VOD data service (a user interface (TV screen) application is implemented using the VOD content, paragraph [0088]), the user interface application operable to provide a first view of the VOD content based on the metadata characteristics (providing VOD content to be viewed on the HDTV based on whether the content is media or advertisements, paragraphs [0016], [0025], [0026] and [0097]).

Claims 1 and 2 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

RECEIVED
MAR 16 2015
SHERIDAN ROSS, P.C.
DOCKETING DEPT.

To:

LENNOX-GENTLE, Thaine
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-444-PCT	IMPORTANT NOTICE

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055289	16 August 2013 (16.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

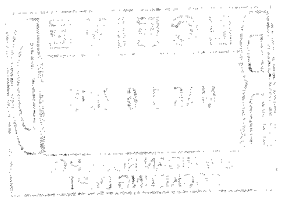
The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Kihwan Moon

e-mail: pt01.pct@wipo.int

Form PCT/IB/326 (January 2004)



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-444-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055289	International filing date *(day/month/year)* 16 August 2013 (16.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Kihwan Moon e-mail: pt01.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: THAINE LENNOX-GENTLE
SHERIDAN ROSS P.C.
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	02 DEC 2013
Applicant's or agent's file reference 6583-444-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055289	16 August 2013	17 August 2012

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 5/445 (2013.01)
USPC - 725/41

Applicant FLEXTRONICS AP, LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	13 November 2013	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055289

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2013/055289

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-20	YES
	Claims	None	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-18 lack an inventive step under PCT Article 33(3) as being obvious over DeGonde et al. (hereinafter referred to as DeGonde) in view of Candelore.

Regarding claims 1, 13, DeGonde discloses a method (abstract), comprising receiving, by a television, a request to change a television tuner from a first channel to a second channel (user changes channel on a broadcast data receiver to switch from a first channel to a newly selected channel by using a remote control, para 55-56; see para 9, abstract), the first channel providing first programming and the second
channel providing second programming, wherein the first and second programming are different (first channel and new channel broadcast data, para 13, 55; video 16 [first channel programming] and video 26 [second channel programming], fig. 3, para 64-65) and wherein changing from the first channel to the second channel causes a delay in providing, by the television tuner, the second programming (changing from a first channel to a second channel produces a delay, para 4-5, 57; delay between first video 16 and newly selected video 26, see fig. 3, para 64-65); determining, by a microprocessor executable application framework (see application processing of system, fig. 1) and based on data associated with the at least one of the second channel and second programming, a graphical image associated with the second programming (identify and decode data for new channel, which includes I-frames, para 58-59; first I-frame decoded and displayed during transfer to new channel, para 62; video frame of newly selected channel is output for display as a still image until transfer to new channel is complete, abstract, para 14); and during the delay, displaying, by the microprocessor executable application framework and on a screen of the television, the image (video frame of newly selected channel is output for display as a still image until transfer to new channel is complete, abstract, para 14; as soon as first I-frame of new channel is received it is displayed as a still image, para 65; system is a television system, para 1). DeGonde does not specifically disclose that the data is metadata, or tangible and non-transient computer readable medium, comprising microprocessor executable instructions that, when executed, are configured to perform operations.
Candelore is in the field of a television system for displaying program information during channel changes (abstract, fig. 1) and teaches tangible and non-transient computer readable medium, comprising microprocessor executable instructions that, when executed (para 26-28), are configured to perform operations of using metadata to extract program information for display during a channel change (para 8, metadata associated with user selected program is determined, para 23, 30). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the metadata features as taught in Candelore with the invention of DeGonde in order to provide the appearance of the channels being switched more quickly to the user (see DeGonde, para 1, 14).

Regarding claim 7, DeGonde discloses a television (television system, para 1, abstract), comprising: a television tuner (tuning means, para 8-9); a screen for displaying programming (display screen, para 21); at least one of an infrared and radio frequency module (broadcast data receiver receives input from remote control via infra-red signal, para 4) configured to receive a request to change the television tuner from a first channel to a second channel (user changes channel on a broadcast data receiver to switch from a first channel to a newly selected channel by using a remote control, para 55-56; see para 9, abstract), the first channel providing first programming and the second channel providing second programming, wherein the first and second programming are different (first channel and new channel broadcast data, para 13, 55; video 16 [first channel programming] and video 26 [second channel programming], fig. 3, para 64-65) and wherein changing from the first channel to the second channel causes a delay in providing, by the television tuner, the second programming (changing from a first channel to a second channel produces a delay, para 4-5, 57; delay between first video 16 and newly selected video 26, see fig. 3, para 64-65); and a microprocessor executable application framework (see application processing of system, fig. 1) configured to determine, based on data associated with the at least one of the second channel and second programming, an image associated with the second programming (identify and decode data for new channel, which includes I-frames, para 58-59; first I-frame decoded and displayed during transfer to new channel, para 62; video frame of newly selected channel is output for display as a still image until transfer to new channel is complete, abstract, para 14) and, during the delay, display, on the screen ofthe television, the image (video frame of newly selected channel is output for display as a still image until transfer to new channel is complete, abstract, para 14; as soon as first I-frame of new channel is received it is displayed as a still image, para 65; system is a television system, para 1). DeGonde does not specifically disclose that the data is metadata. Candelore is in the field of a television system for displaying program information during channel changes (abstract, fig. 1) and teaches using metadata to extract program information for display during a channel change (para 8, metadata associated with user selected program is determined, para 23, 30). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the metadata features as taught in Candelore with the invention of DeGonde in order to provide the appearance of the channels being switched more quickly to the user (see DeGonde, para 1, 14).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055289

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claims 2, 8, 14, DeGonde discloses wherein the image is one of a captured frame of the second programming, a picture associated with the second programming, and a photograph associated with the second programming (video frame of newly selected channel is output for display as a still image until transfer to new channel is complete, abstract, para 14; as soon as first I-frame of new channel is received it is displayed as a still image, para 65; system is a television system, para 1), but does not specifically disclose wherein each ofthe first and second programming is one or more of a movie, an episode, sport event, and a television special. However, Candelore teaches wherein each ofthe first and second programming is one or more of a movie, an episode, sport event, and a television special (obtaining program information during channel changes [first channel to second channel], para 8; programming includes television programs such as movie, sporting events, news broadcasts, etc., para 29). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the programming features as taught in Candelore with the invention of DeGonde in order to allow a user of a television system to switch between desired watching experiences.

Regarding claims 3, 9, 15, DeGonde discloses wherein the image is a captured frame of the second programming and wherein the captured frame is a still image and wherein the image is displayed full screen (video frame of newly selected channel is output for display as a still image until transfer to new channel is complete, abstract, para 14; as soon as first I-frame of new channel is received it is displayed as a still image, para 65; system is a television system, para 1).

Regarding claims 4, 10, 16, DeGonde discloses wherein the image is a captured frame of the second programming and wherein the captured frame is a still and not moving image (video frame of newly selected channel is output for display as a still image until transfer to new channel is complete, abstract, para 14; as soon as first I-frame of new channel is received it is displayed as a still image, para 65; system is a television system, para 1), but fails to disclose wherein the image is displayed as part of a header bar, and wherein the header bar comprises at least one of a program name, series name, episode number, episode name, and sport event name and a plurality of a program description, a program type, a program category, a start-to-finish time, current runtime, and a remaining runtime.
However, Candelore teaches wherein the metadata is displayed as part of a header bar, and wherein the header bar comprises at least one of a program name, series name, episode number, episode name, and sport event name and a plurality of a program description, a program type, a program category, a start-to-finish time, current runtime, and a remaining runtime (during channel change event, metadata provides information about the selected program channel and displays it to the user, which includes program description and name, see Fig. 5, 7, para 73-74). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the header bar information features as taught in Candelore with the invention of DeGonde in order to provide the user with useful information related to the selected programming during a channel change (see Candelore, para 20, 73-74).

Regarding claims 5, 11, 17, DeGonde discloses wherein the image is a captured frame of the second programming and is not moving (video frame of newly selected channel is output for display as a still image until transfer to new channel is complete, abstract, para 14; as soon as first I-frame of new channel is received it is displayed as a still image, para 65; system is a television system, para 1).

Regarding claims 6, 12, 18, DeGonde discloses the invention above, including the image, but fails to disclose wherein the metadata and image are provided by an electronic program guide service. However, Candelore teaches obtaining metadata and information provided by an electronic program guide service (electronic program guide (EPG) provides metadata information, para 29-30; see para 66, 68). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the electronic program guide features as taught in Candelore with the invention of DeGonde in order to use information provided by the service provider (see Candelore, para 68).

Claims 19-20 lack an inventive step under PCT Article 33(3) as being obvious over DeGonde in view of Candelore and further in view of Michel et al. (hereinafter referred to as Michel).

Regarding claims 19-20, DeGonde as modified discloses the invention above, but fails to disclose wherein the metadata is populated into an electronic program guide using the Program and System Information Protocol or wherein the metadata is converted into a broadcast-ready format by a Programming Metadata Communication Protocol generator. However, the use of Program and System Information Protocol and Programming Metadata Communication Protocol was well known in the art at the time of the invention, as evidenced by Michel. Michel is in the field of transmitting program information over television networks (abstract) and teaches using wherein the metadata is populated into an electronic program guide using the Program and System Information Protocol (program data server configured to provide current programsystem information protocol (PSIP) data, para 6; inserted into EPG, para 19, 25) and wherein the metadata is converted into a broadcast-ready format by a Programming Metadata Communication Protocol generator (data formatter 320 then formats the PSIP data into a format referred to as Programming and Metadata Communication Protocol (PMCP), which can be interpreted by the station PSIP generator 134, para 28, fig. 3). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the metadata protocols as taught in Michel with the invention of modified DeGonde in order to abide by current mandated laws (see Michel, para 3).

Claims 1-20 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

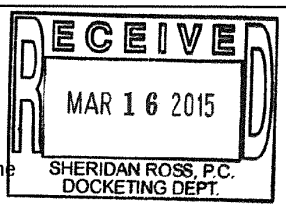
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From the INTERNATIONAL BUREAU

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NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:



LENNOX-GENTLE, Thaine
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)*	
26 February 2015 (26.02.2015)	
Applicant's or agent's file reference	**IMPORTANT NOTICE**
6583-446-PCT	

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055286	16 August 2013 (16.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC.

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

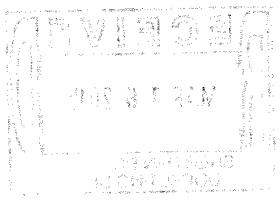
The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Philippe Bécamel

e-mail: pt03.pct@wipo.int

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-446-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055286	International filing date *(day/month/year)* 16 August 2013 (16.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC.		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 6 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Philippe Bécamel e-mail: pt03.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: THAINE LENNOX-GENTLE
SHERIDAN ROSS P.C.
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	02 DEC 2013
Applicant's or agent's file reference 6583-446-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055286	16 August 2013	17 August 2012

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 5/445 (2013.01)
USPC - 725/41

Applicant FLEXTRONICS AP, LLC.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	15 November 2013	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055286

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

☒ the international application in the language in which it was filed.

☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

a. (means)

☐ on paper

☐ in electronic form

b. (time)

☐ in the international application as filed

☐ together with the international application in electronic form

☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055286

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-21	YES
	Claims	None	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-21	NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-21 lack an inventive step under PCT Article 33(3) as being obvious over Yi in view of Constant et al. (hereinafter referred to as Constant).

Regarding claims 1, 15, Yi discloses a method (para 6), and a tangible and non-transient computer readable medium, comprising microprocessor executable instructions that, when executed, are configured to perform operations (para 7, 14) comprising: receiving, by a television (television 12, Fig. 1), electronic program guide ("EPG") information associated with a channel and/or program (EPG, Fig. 2, is displayed on TV Display, para 5, 17); determining, by a microprocessor executable application framework (processor 14 of TV, para 14) and based on metadata associated with a selected program (metadata associated with selected channel is accessed, para 23, 6), a graphical image associated with the selected program (second metadata may also include information pertaining to a program different than a current program on the TV channel as well as a video preview of the TV channel, para 5; metadata information can include thumbnail image of channel, para 23); and in a first mode, displaying, by the application framework and on a screen of the television, a thumbnail preview comprising EPG information associated with the selected program and the graphical image, wherein the selected program corresponds to an in focus program in a listing of EPG information for multiple channels and/or programs and wherein the graphical image is not related with a currently viewed program (when browsing the channels a desired [i.e. not currently viewed] channel icon can be selected so that enhanced metadata is accessed from EPG data structure and presented to the user, which includes a still image miniature of the program, para 23-25, Fig. 4); and in a second mode, displaying, by the application framework and on the television screen, a header bar (cross media bar XMB, para 6), the header bar comprising EPG information associated with the selected program and the graphical image (XMB bar displays EPG metadata associated with the desired [selected] program, para 23-25, fig.3-4), but does not specifically disclose wherein the selected program corresponds to a currently viewed program and is not related to an in focus program in a listing of EPG information for multiple channels and/or programs.
However, in the field of displaying EPG information on a television display (abstract, Fig. 1a), Constant teaches receiving, by a television (television, para 12), electronic program guide ("EPG") information associated with a channel and/or program (providing an electronic program guide to a television, abstract, para 12); in a first mode, displaying a thumbnail preview comprising EPG information associated with the selected program and the graphical image (see Fig. 1a-b; image preview of a show is shown in top banner 110, para 20-21); and in a second mode, displaying, by the application framework and on the television screen, a header bar (fig. 2a-b [showing second mode], window displays a TV Viewing Now & Next banner 230, para 32-34), the header bar comprising EPG information associated with the selected program and the graphical image (image shown in 210 may depend on selected channel, para 34-35), wherein the selected program corresponds to a currently viewed program and is not related to an in focus program in a listing of EPG information for multiple channels and/or programs (banner 230 provides information on the current TV channel, para 34). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the header bar showing the currently viewed program information as taught in Constant with the invention of Yi in order to provide the viewer with information that corresponds to the current time and channel viewed (see Constant, para 34).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055286

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claim 8, Yi discloses a television (television 10, para 14, fig. 1), comprising: a screen for displaying programming (TV display 40, para 5, 17, Fig. 1); at least one of an infrared and radio frequency module configured to receive wireless signals from a remote control of a user (TV system 10 also includes a portable hand-holdable TV remote control (RC) 22. The RC 22, among other things, can have cursor control keys 24 for sending wireless signals to a receiver 26 on the chassis 12, para 15, fig. 1); and a microprocessor executable application framework (processor 14 of TV, para 14) configured to receive electronic program guide ("EPG") information associated with a channel and/or program (EPG, Fig. 2, is displayed on TV Display, para 5, 17), determine, based on metadata associated with a selected program(metadata associated with selected channel is accessed, para 23, 6); a graphical image associated with the selected program (second metadata may also include information pertaining to a program different than a current program on the TV channel as well as a video preview of the TV channel, para 5; metadata information can include thumbnail image of channel, para 23); and operate in the following modes: in a first mode, displaying, on the television screen, a thumbnail preview comprising EPG information associated with the selected program and the graphical image, wherein the selected program corresponds to an in focus program in a listing of EPG information for multiple channels and/or programs and wherein the graphical image is not related with a currently viewed program (when browsing the channels a desired [i.e. not currently viewed] channel icon can be selected so that enhanced metadata is accessed from EPG data structure and presented to the user, which includes a still image miniature of the program, para 23-25, Fig. 4); and in a second mode, displaying, on the television screen, a header bar (cross media bar XMB, para 6), the header bar comprising EPG information associated with the selected program and the graphical image (XMB bar displays EPG metadata associated with the desired [selected] program, para 23-25, fig.3-4), but does not specifically disclose wherein the selected program corresponds to a currently viewed program and is not related to an in focus program in a listing of EPG information for multiple channels and/or programs. However, in the field of displaying EPG information on a television display (abstract, Fig. 1a), Constant teaches receiving, by a television (television, para 12), electronic program guide ("EPG") information associated with a channel and/or program (providing an electronic program guide to a television, abstract, para 12); in a first mode, displaying a thumbnail preview comprising EPG information associated with the selected program and the graphical image (see Fig. 1a-b; image preview of a show is shown in top banner 110, para 20-21); and in a second mode, displaying, by the application framework and on the television screen, a header bar (fig. 2a-b [showing second mode], window displays a TV Viewing Now & Next banner 230, para 32-34), the header bar comprising EPG information associated with the selected program and the graphical image (image shown in 210 may depend on selected channel, para 34-35), wherein the selected program corresponds to a currently viewed program and is not related to an in focus program in a listing of EPG information for multiple channels and/or programs (banner 230 provides information on the current TV channel, para 34). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the header bar showing the currently viewed program information as taught in Constant with the invention of Yi in order to provide the viewer with information that corresponds to the current time and channel viewed (see Constant, para 34).

Regarding claims 2, 9, 16, Yi discloses wherein the first mode is performed when the user changes a channel to the selected program (when browsing the channels a desired channel icon can be selected [i.e. user changed channel] so that enhanced metadata is accessed from EPG data structure and presented to the user, which includes a still image miniature of the program, para 23-25, Fig. 4) and/or when the user moves a remote control (enhanced metadata is displayed when the desired channel icon is activated by user for more than a first period, para 4-5, wherein the user uses a remote control to select desired channels, para 17).

Regarding claims 3, 10, 17, Yi as modified discloses the invention above, and Yi further discloses wherein the second mode is performed when the listing EPG information is displayed on the television screen (EPG, Fig. 2, is displayed on TV Display, para 5, 17) and wherein the EPG information comprises, for each program, program name, program channel, and program description (program name 70 and other enhanced metadata information, including program description and channel, para 21, 23, fig. 3-4), but does not specifically disclose the EPG information includes, for each program, airtime. However, Constant teaches wherein the second mode is performed when the listing EPG information is displayed on the television screen (see fig. 2a; EPG shown on TV display, para 11-12) and wherein the EPG information comprises, for each program, airtime, program name, program channel (Fig. 1a-b shows the EPG information includes the time 122, name and channel 121, para 21). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the second mode features as taught in Constant with the invention of Yi in order to provide the viewer with information that corresponds to the current time and channel viewed (see Constant, para 34).

Regarding claims 4, 11, 18, Yi discloses wherein the selected program is one or more of a movie, an episode, sport event, and a television special (selected program may be an episode, para 23, fig. 4) and wherein the image is one of a captured frame of the selected program, a picture associated with the selected program, and a photograph associated with the selected program (desired channel icon can be selected so that enhanced metadata is accessed from EPG data structure and presented to the user, which includes a still image miniature of the program, para 23-25, Fig. 4).

Regarding claims 5, 12, 19, Yi discloses wherein the image is a captured frame, wherein the captured frame is a still image and wherein the image is displayed only on part of the screen (desired channel icon can be selected so that enhanced metadata is accessed from EPG data structure and presented to the user, which includes a still image miniature of the program, para 23-25, see Fig. 4 [showing enhanced metadata shown on part of display 50]).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055286

Supplemental Box

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Regarding claims 6, 13, 20, Yi discloses wherein the image is a captured frame, wherein the captured frame is a still and not moving image (desired channel icon can be selected so that enhanced metadata is accessed from EPG data structure and presented to the user, which includes a still image miniature of the program, para 23-25, see Fig. 4), and wherein the header bar comprises at least one of a program name, series name, episode number, episode name, and sport event name and a plurality of a program description, a program type, a program category, a start to-finish time, current runtime, and a remaining runtime (XMB header bar displays program name 70 and other enhanced metadata information, including program description, para 21, 23, fig. 3-4).

Regarding claims 7, 14, 21, Yi discloses wherein the metadata and image are provided by an electronic program guide service (desired channel icon can be selected so that enhanced metadata is accessed from EPG data structure and presented to the user, which includes a still image miniature of the program, para 23-25, see Fig. 4).

Claims 1-21 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

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(PCT Rule 44bis.1(c))

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LENNOX-GENTLE, Thaine
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-450-PCT	IMPORTANT NOTICE

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055294	16 August 2013 (16.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

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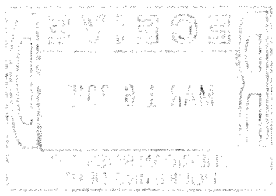
The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Kihwan Moon

e-mail: pt01.pct@wipo.int

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-450-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055294	International filing date *(day/month/year)* 16 August 2013 (16.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 8 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Kihwan Moon e-mail: pt01.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: THAINE LENNOX-GENTLE
SHERIDAN ROSS P.C.
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	02 DEC 2013

Applicant's or agent's file reference	FOR FURTHER ACTION
6583-450-PCT	See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055294	16 August 2013	17 August 2012

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 5/445 (2013.01)
USPC - 725/39

Applicant FLEXTRONICS AP, LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	07 November 2013	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

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Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

   ☐ on paper

   ☐ in electronic form

   b. (time)

   ☐ in the international application as filed

   ☐ together with the international application in electronic form

   ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

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Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-20	YES
	Claims	None	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-20 lacks an inventive step under PCT Article 33(3) as being obvious over Hwang in view of Klosterman et al.

Regarding claim 1, Hwang disclose a method (Metadata Display Control Method and System for Broadcast Receiver, abstract), comprising:

Presenting, via a display of an intelligent television (TV), live TV content, wherein the live TV content is presented to a first portion of the display (The display unit 140 displays the video data of the broadcast program transmitted by the broadcast station, fig.1-2, para. 0033);

Receiving an electronic program guide (EPG) presentation input at the intelligent TV (Electronic Program Guide (EPG) is referred to as "Metadata", para. 0005, 0026; Interactive TV 100 receives the broadcast programs and Metadata associated with broadcast program, fig. 2, 0036); and

Determining, by a processor associated with the intelligent TV and in response to receiving the EPG presentation input, EPG information that corresponds to at least one of the presented live TV content and the EPG presentation input received (the metadata is transmitted to the mobile terminal 300 through a Bluetooth link established between the interactive TV 100 and the mobile terminal 300, para. 0036, 0037; the controller 370 monitors to detect user command input by the viewer and determines , if a user command is detected, once determined if the metadata is received, the metadata (EPG) associated with the broadcast program is displayed, fig. 6, para. 0064-0065); and

Retrieving, from at least one source, the EPG information (the control unit 160 of the interactive TV 100 receives metadata (EPG) associated broadcast programs provided by the broadcast station or broadcast service provider, fig. 1, para. 0035).

Hwang fails to specifically teach determining, by processor, an EPG presentation layout, wherein the EPG presentation layout includes at least one position associated with content of the EPG information within a live TV application panel. However, Klosterman et al. discloses a system/method for displaying an electronic program guide (Abstract) and teaches determining an EPG presentation layout, wherein the EPG presentation layout includes at least one position associated with content of the EPG information within a live TV application panel (a program guide data processor 1205 and a plug-in program guide controller module 1240 wherein the module 1240 determines the program guide 1205 capabilities by allowing user to customize the program guide layout, fig. 12, col.12, lines 65-67 and col. 13, lines 10-21; a user may evoke a preview screen within the display content where the user can view EPG information within a live TV application panel which can be referred to a hypertune, fig. 6d, col. 10, lines 1-14).

Hwang teaches that the metadata (EPG) can overlap the broadcast program displayed on screen of the interactive TV 100 (fig. 2, para. 0036), but fails to specifically teach presenting, via the display, the EPG information in the EPG presentation layout to a second portion of the display, wherein the second portion of the display is associated with the live TV application panel, and wherein the live TV application panel overlaps at least a portion of the presented live TV content. However, Klosterman et al. teaches presenting, via the display, the EPG information in the EPG presentation layout to a second portion of the display, wherein the second portion of the display is associated with the live TV application panel, and wherein the live TV application panel overlaps at least a portion of the presented live TV content (a preview window or a pop-up window that can overlap the current live program while searching or messaging the program guide via user interaction, fig. 2, col. 7, lines 62-67 and fig. 5a, col. 8, lines 42-59 and fig. 6d, col. 10, lines 1-14). Therefore, it would have been obvious to one of ordinary skill at the time of the invention to use the teaching of an Electronic Program Guide display system and method that includes a processor capable of processing the user command for EPG layout presentation and output displays overlays, picture-in-picture, and pop-up windows while responding to user commands during live content broadcast as taught by Klosterman et al. to incorporate the above EPG displaying features in the invention of Hwang in order to provide an easy and convenient way to manipulate the electronic program guide based on user command and preferences (Klosterman et al., col. 1, line 64 - col. 2, line 7).

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claim 2, Hwang disclose the method of claim 1, wherein determining the EPG presentation layout further comprises:
Referring to rules stored in a memory, wherein the rules include one or more EPG information layout templates, wherein the one or more EPG information layout templates correspond to one or more EPG presentation inputs (storage 360 stores application programs associated with functions of the mobile terminal 300, metadata and sub-metadata from interactive TV or user data and may be divided into program region and a data region, fig. 4, para. 0048);
Matching the received EPG presentation input to one of the one or more EPG presentation inputs (user selects one of the items constituting the metadata, controller 370 transmits the information of the selected item to the interactive TV 100 and the metadata is displayed currently, when channel is switched or program ended, fig. 4, para.0050); and
Hwang fails to specifically teach determining, based on the match, a select EPG information layout template for the EPG presentation layout from the one or more EPG information layout templates. However, Klosterman et al. teaches determining, based on the match, a select EPG information layout template for the EPG presentation layout from the one or more EPG information layout templates (an electronic program guide that can have different display arrangements such as different typeface, different color, given additional space for program description or other graphic enhancements, thereby one can conclude that such preference is stored in a computer readable medium of the device 100, fig. 2, col. 6, lines 59-63; User can upgrade/change program guides based on preferences, col. 13, lines 10-25. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teaching of the use of EPG layout choices stored in memory based on user or provider as taught by Klosterman et al. to incorporate the above features in the invention of Hwang in order to allow modification and alterations to the program guide without requiring major hardware changes.

Regarding claim 3, Hwang discloses the method of claim 1, wherein the EPG information is retrieved from two or more signal sources (EPG information is retrieved from interactive TV control system includes broadcast receiver unit 110, data processing unit 115, a feedback data transmitter 120, Bluetooth unit 130, storage unit 120 and a control unit 160, Fig. 2, para, 0028).

Regarding claim 4, Hwang discloses the method of claim 1, wherein the at least one source is at least one of a local memory, a remote memory, a broadcast signal, and a memory located across a network (broadcast receiver unit 110 receives and processes the broadcast signals and transmitter 120 receives and transmits channel data via IP network, fig. 2, para. 0029 and para. 0031).

Regarding claim 5, Hwang discloses the method of claim 1, wherein at least one of EPG information and the live TV application panel is at least partially transparent, and wherein the presented live TV content is visible beneath the presented EPG information (the Bluetooth communication link established through the interactive TV 100 is disabled allowing the metadata (EPG, para. 0026) to overlap the current broadcast program displayed, fig. 1, para. 0036).

Regarding claim 6, Hwang disclose the method of claim 1, wherein the EPG presentation input is provided via an input device associated with the intelligent TV (mobile terminal 300 can communicate with interactive TV 100, the viewer may request and receive metadata from the mobile device 300, fig. 1, para. 0036 and fig. 6, para. 0064).

Regarding claim 7, Hwang disclose the method of claim 1, but fails to specifically teach wherein the EPG presentation layout is arranged to present the EPG information in a tabular format. However, Klosterman et al. teaches wherein the EPG presentation layout is arranged to present the EPG information in a tabular format (a grid format for the schedule guide display output based on an x-y axis layout, fig. 1 & fig. 3a, col. 5, lines 44-46). It would have been obvious to one of ordinary skill at the time of the invention to use the teachings of a grid format arrangement for the EPG layout displayed on the interactive TV as taught by Klosterman et al. to incorporate the above EPG presentation layout in the invention of Hwang in order to provide multiple options for viewing and selecting EPG information for user, providing an easier access to information or by providing a user a customization experience.

Regarding claim 8, Hwang disclose the method of claim 7, but fails to specifically teach wherein the tabular format is ordered by at least one of channel number and time associated with the EPG information. However, Klosterman et al. teaches wherein the tabular format is ordered by at least one of channel number and time associated with the EPG information (guide screen 200 contains cells 245 and each cell may contain channel number 32, program service name, and Program Broadcast Service name, fig. 2, col. 6, lines 46-52; an EPG layout format that includes channel name, time and additional information as it relates to the EPG information provided (fig. 4a, col. 8, lines 17-25). It would have been obvious to one of ordinary skill at the time of the invention to use the teaching of a program guide with program detail information such as time, name and channel of the program information as taught by Klosterman et al. to incorporate the above features in the invention of Hwang in order to provide user with detailed information and options for easy manipulation by user in an electronic program guide system and method.

Regarding claim 9, Hwang disclose the method of claim 8, wherein the EPG information is associated with preferred content (controller 370 detects and determines user commands and user selection command of metadata (EPG) associated with broadcast program, fig. 6, para. 0064-0066).

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claim 10, Hwang disclose the method of claim 1, further comprising:
Determining a select-focus is associated with an EPG entry in the presented EPG information (Controller 370 determines user selection command input based on the received metadata (EPG) information, fig. 6, para. 0065-0066).
Hwang fails to specifically teach initiating a timer associated with the determined select-focus, wherein the timer includes a goal timer. However, Klosterman et al. teaches initiating a timer associated with the determined select-focus, wherein the timer includes a goal timer (a guide screen 400 having an interactive information region where the user can select a program that has a later scheduled time and may select the recording option or the auto tune option to view upcoming program or the description of the program content, fig. 4,col. 8, lines 26-41).
Hwang also fails to specifically teach presenting, upon reaching the goal time, an EPG preview window adjacent to the EPG entry associated with the select-focus, wherein the EPG preview window includes at least one of a thumbnail graphic, a description, and a time associated with the EPG entry. However, Klosterman et al. teaches presenting, upon reaching the goal time, an EPG preview window adjacent to the EPG entry associated with the select-focus, wherein the EPG preview window includes at least one of a thumbnail graphic, a description, and a time associated with the EPG entry (a guide screen 500 that has an interactive region 520 where message screen 550 displays description of the program content and may contain an icon linked to a short video preview and the preview may be in the form of picture-in-picture displaying possible information about upcoming program, fig. 5a-b, col. 8, lines 43-59). It would have been obvious to one of ordinary skill at the time of the invention to use the teachings of a timer and a preview window capable of recording or auto tuning broadcast programs along with EPG information displayed in a preview window as taught by Klosterman et al. to incorporate the above EPG features in the invention of Hwang in order to provide users with the convenience of viewing a program at a later time or to preview a program to determine the user's preference.

Regarding claim 11, Hwang discloses the method of claim 10, wherein the EPG preview window includes a preview indicator, and wherein the preview indicator is linked to the EPG entry (the Interactive TV 100 displays a'query message asking whether to receive the metadata (EPG) in the form of pop-up window, for example a user selects a channel on the interactive TV 100, then a pop-up window is displayed presenting a querying message asking whether to receive metadata (EPG) associated with broadcast program on display, fig. 5, para. 0056-0057).

Regarding claim 12, Hwang disclose a tangible, non-transitory computer readable medium having instructions stored there on that, when executed by a processor (storage unit 360 stores application programs, metadata and sub metadata, fig. 3, para.0048), perform the method comprising:
Presenting, via a display of an intelligent television (TV), live TV content, wherein the live TV content is presented to a first portion of the display (The display unit 140 displays the video data of the broadcast program transmitted by the broadcast station, fig.1-2, para. 0033);
Receiving an electronic program guide (EPG) presentation input at the intelligent TV (Electronic Program Guide (EPG) is referred to as "Metadata", para. 0026; Interactive TV 100 receives the broadcast programs and Metadata associated with broadcast program, fig. 2, para. 0036); and
Determining, by a processor associated with the intelligent TV and in response to receiving the EPG presentation input, EPG information that corresponds to at least one of the presented live TV content and the EPG presentation input received (the metadata is transmitted to the mobile terminal 300 through a Bluetooth link established between the interactive TV 100 and the mobile terminal 300, para. 0036, 0037; the controller 370 monitors to detect user command input by the viewer and determines , if a user command is detected, once determined if the metadata is received, the metadata (EPG) associated with the broadcast program is displayed, fig. 6, para. 0064-0065); and
Retrieving, from at least one source, the EPG information (the control unit 160 of the interactive TV 100 receives metadata (EPG) associated broadcast programs provided by the broadcast station or broadcast service provider, fig. 1, para. 0035).
Hwang fails to specifically teach determining, by processor, an EPG presentation layout, wherein the EPG presentation layout includes at least one position associated with content of the EPG information within a live TV application panel. However, Klosterman et al. discloses a system/method for displaying an electronic program guide (Abstract) and teaches determining an EPG presentation layout, wherein the EPG presentation layout includes at least one position associated with content of the EPG information within a live TV application panel (a program guide data processor 1205 and a plug-in program guide controller module 1240 wherein the module 1240 determines the program guide 1205 capabilities by allowing user to customize the program guide layout, fig. 12, col.12, lines 65-67 and col. 13, lines 10-21; a user may evoke a preview screen within the display content where the user can view EPG information within a live TV application panel which can be referred to a hypertune, fig. 6d, col. 10, lines 1-14).
Hwang teaches that the metadata (EPG) can overlap the broadcast program displayed on screen of the interactive TV 100 (fig. 2, para. 0036), but fails to specifically teach presenting, via the display, the EPG information in the EPG presentation layout to a second portion of the display, wherein the second portion of the display is associated with the live TV application panel, and wherein the live TV application panel overlaps at least a portion of the presented live TV content. However, Klosterman et al. teaches presenting, via the display, the EPG information in the EPG presentation layout to a second portion of the display, wherein the second portion of the display is associated with the live TV application panel, and wherein the live TV application panel overlaps at least a portion of the presented live TV content (a preview window or a pop-up window that can overlap the current live program while searching or messaging the program guide via user interaction, fig. 2, col. 7, lines 62-67 and fig. 5a, col. 8, lines 42-59 and fig. 6d, col. 10, lines 1-14). Therefore, it would have been obvious to one of ordinary skill at the time of the invention to use the teaching the teaching of an Electronic Program Guide display system and method that includes a processor capable of processing the user command for EPG layout presentation and output displays overlays, picture-in-picture, and pop-up windows while responding to user commands during live content broadcast as taught by Klosterman et al. to incorporate the above EPG displaying features in the invention of Hwang in order to provide an easy and convenient way to manipulate the electronic program guide based on user command and preferences (Klosterman et al., col. 1, line 64 - col. 2, line 7).

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claim 13, Hwang disclose the tangible, non-transitory computer readable medium of claim 12, wherein determining the EPG presentation layout further comprises:

Referring to rules stored in a memory, wherein the rules include one or more EPG information layout templates, wherein the one or more EPG information layout templates correspond to one or more EPG presentation inputs (storage 360 stores application programs associated with functions of the mobile terminal 300, metadata and sub-metadata from interactive TV or user data and may be divided into program region and a data region, fig. 4, para. 0048);

Matching the received EPG presentation input to one of the one or more EPG presentation inputs (user selects one of the items constituting the metadata, controller 370 transmits the information of the selected item to the interactive TV 100 and the metadata is displayed currently, when channel is switched or program ended, fig. 4, para.0050).

Hwang fails to specifically teach determining, based on the match, a select EPG information layout template for the EPG presentation layout from the one or more EPG information layout templates. However, Klosterman et al. teaches determining, based on the match, a select EPG information layout template for the EPG presentation layout from the one or more EPG information layout templates (an electronic program guide that can have different display arrangements such as different typeface, different color, given additional space for program description or other graphic enhancements, thereby one can conclude that such preference is stored in a computer readable medium of the device 100, fig. 2, col. 6, lines 59-63; User can upgrade/change program guides based on preferences, col. 13, lines 10-25). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of the use of EPG layout choices stored in memory based on user or provider as taught by Klosterman et al. to incorporate the above desired EPG features in the invention of Hwang in order to allow modification and alterations to the program guide without requiring major hardware changes.

Regarding claim 14, Hwang discloses the tangible, non-transitory computer readable medium of claim 12, wherein the EPG information is retrieved from two or more signal sources (EPG information is retrieved from interactive TV control system includes broadcast receiver unit 110, data processing unit 115, a feedback data transmitter 120, Bluetooth unit 130, storage unit 120 and a control unit 160, Fig. 2, para, 0028).

Regarding claim 15, Hwang discloses the tangible, non-transitory computer readable medium of claim 12, wherein the at least one source is at least one of a local memory, a remote memory, a broadcast signal, and a memory located across a network (broadcast receiver unit 110 receives and processes the broadcast signals and transmitter 120 receives and transmits channel data via IP network, fig. 2, para. 0029 and para. 0031).

Regarding claim 16, Hwang discloses the tangible, non-transitory computer readable medium of claim 12, wherein at least one of EPG information and the live TV application panel is at least partially transparent, and wherein the presented live TV content is visible beneath the presented EPG information (the Bluetooth communication link established through the interactive TV 100 is disabled allowing the metadata (EPG, para. 0026) to overlap the current broadcast program displayed, fig. 1, para. 0036).

Regarding claim 17, Hwang disclose the tangible, non-transitory computer readable medium of claim 12, but fails to specifically teach wherein the EPG presentation layout is arranged to present the EPG information in a tabular format. However, Klosterman et al. teaches wherein the EPG presentation layout is arranged to present the EPG information in a tabular format (a grid format for the schedule guide display output based on an x-y axis layout, fig. 1 & fig. 3a, col. 5, lines 44-46). ITherefore, it would have been obvious to one of ordinary skill at the time of the invention to combine a grid format arrangement for the EPG layout displayed on the interactive TV as taught by Klosterman et al. to incorporate the above desired EPG displaying format in the invention of Hwang in order to provide multiple options for viewing and selecting EPG information for user, providing an easier access to information or by providing a user a customization experience.

Regarding claim 18, Hwang disclose the tangible, non-transitory computer readable medium of claim 12, wherein the method further comprising:

Determining a select-focus is associated with an EPG entry in the presented EPG information (Controller 370 determines user selection command input based on the received metadata (EPG) information, fig. 6, para. 0065-0066).

Hwang fails to specifically teach initiating a timer associated with the determined select-focus, wherein the timer includes a goal timer. However, Klosterman et al. teaches initiating a timer associated with the determined select-focus, wherein the timer includes a goal timer (a guide screen 400 having an interactive information region where the user can select a program that has a later scheduled time and may select the recording option or the auto tune option to view upcoming program or the description of the program content, fig. 4,col. 8, lines 26-41).

Hwang also fails to specifically teach presenting, upon reaching the goal time, an EPG preview window adjacent to the EPG entry associated with the select-focus, wherein the EPG preview window includes at least one of a thumbnail graphic, a description, and a time associated with the EPG entry. However, Klosterman et al. teaches presenting, upon reaching the goal time, an EPG preview window adjacent to the EPG entry associated with the select-focus, wherein the EPG preview window includes at least one of a thumbnail graphic, a description, and a time associated with the EPG entry (a guide screen 500 that has an interactive region 520 where message screen 550 displays description of the program content and may contain an icon linked to a short video preview and the preview may be in the form of picture-in-picture displaying possible information about upcoming program, fig. 5a-b, col. 8, lines 43-59). Therefore, it would have been obvious to one of ordinary skill at the time of the invention to use the teachings of a timer and a preview window capable of recording or auto tuning broadcast programs along with EPG information displayed in a preview window as taught by Klosterman et al. to incorporate the above desired EPG features in the invention of Hwang in order to provide users with the convenience of viewing a program at a later time or to preview a program to determine the user's preference.

Regarding claim 19, Hwang discloses the tangible, non-transitory computer readable medium of claim 12, wherein the EPG preview window includes a preview indicator, and wherein the preview indicator is linked to the EPG entry (the Interactive TV 100 displays a query message asking whether to receive the metadata (EPG) in the form of pop-up window, for example a user selects a channel on the interactive TV 100, then a pop-up window is displayed presenting a querying message asking whether to receive metadata (EPG) associated with broadcast program on display, fig. 5, para. 0056-0057).

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claim 20, Hwang disclose a system (Interactive TV of a metadata display control system, abstract, fig.1) comprising:
An intelligent television (TV) having a display and a tuner, wherein the tuner is configured to receive and convert broadcast content signals to be displayed by the display (Interactive TV 100 having display unit 140 and broadcast receiver unit 110 includes a tuner and demodulator which receives and converts broadcast signal to be outputted to the display unit 140, fig. 2, para. 0029-0030);
An input device associated with the intelligent TV (mobile terminal 300, fig. 1, para. 0032);
A memory (storage unit 150 and storage 360 stores application programs, metadata, sub metadata, and recorded broadcast programs fig. 2, para. 0034 and fig. 4, para. 0048); and
A microprocessor (Data processing unit 115, fig. 2, para. 0030) operable to:
Present, via a display of an intelligent television (TV), live TV content, wherein the live TV content is presented to a first portion of the display (The display unit 140 displays the video data of the broadcast program transmitted by the broadcast station, fig.1-2, para. 0033);
Receive an electronic program guide (EPG) presentation input at the intelligent TV (Electronic Program Guide (EPG) is referred to as "Metadata", para. 0005, 0026; Interactive TV 100 receives the broadcast programs and Metadata associated with broadcast program, fig. 2, para. 0036); and
Determine, in response to receiving the EPG presentation input, EPG information that corresponds to at least one of the presented live TV content and the EPG presentation input received (the metadata is transmitted to the mobile terminal 300 through a Bluetooth link established between the interactive TV 100 and the mobile terminal 300, para. 0036, 0037; the controller 370 monitors to detect user command input by the viewer and determines , if a user command is detected, once determined if the metadata is received, the metadata (EPG) associated with the broadcast program is displayed, fig. 6, para. 0064-0065); and
Retrieve, from at least one source, the EPG information (the control unit 160 of the interactive TV 100 receives metadata (EPG) associated broadcast programs provided by the broadcast station or broadcast service provider, fig. 1, para. 0035).
Hwang fails to specifically teach determine, an EPG presentation layout, wherein the EPG presentation layout includes at least one position associated with content of the EPG information within a live TV application panel. However, Klosterman et al. discloses a system/method for displaying an electronic program guide (Abstract) and teaches determine an EPG presentation layout, wherein the EPG presentation layout includes at least one position associated with content of the EPG information within a live TV application panel (a program guide data processor 1205 and a plug-in program guide controller module 1240 wherein the module 1240 determines the program guide 1205 capabilities by allowing user to customize the program guide layout, fig. 12, col.12, lines 65-67 and col. 13, lines 10-21; a user may evoke a preview screen within the display content where the user can view EPG information within a live TV application panel which can be referred to a hypertune, fig. 6d, col. 10, lines 1-14).
Hwang teaches that the metadata (EPG) can overlap the broadcast program displayed on screen of the interactive TV 100 (fig. 2, para. 0036), but fails to specifically teach present, via the display, the EPG information in the EPG presentation layout to a second portion of the display, wherein the second portion of the display is associated with the live TV application panel, and wherein the live TV application panel overlaps at least a portion of the presented live TV content. However, Klosterman et al. teaches resent, via the display, the EPG information in the EPG presentation layout to a second portion of the display, wherein the second portion of the display is associated with the live TV application panel, and wherein the live TV application panel overlaps at least a portion of the presented live TV content (a preview window or a pop-up window that can overlap the current live program while searching or messaging the program guide via user interaction, fig. 2, col. 7, lines 62-67 and fig. 5a, col. 8, lines 42-59 and fig. 6d, col. 10, lines 1-14). Therefore, it would have been obvious to one of ordinary skill at the time of the invention to use the teaching of an Electronic Program Guide display system and method that includes a processor capable of processing the user command for EPG layout presentation and output displays overlays, picture-in-picture, and pop-up windows while responding to user commands during live content broadcast as taught by Klosterman et al. to incorporate the above EPG displaying features in the invention of Hwang in order to provide an easy and convenient way to manipulate the electronic program guide based on user command and preferences (Klosterman et al., col. 1, line 64 - col. 2, line 7).

Claims 1-20 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

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NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

PEARSON, Kendria, E.
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)*	
26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-452-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055493	18 August 2013 (18.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Kihwan Moon

e-mail: pt01.pct@wipo.int

Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-452-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055493	International filing date *(day/month/year)* 18 August 2013 (18.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Kihwan Moon e-mail: pt01.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Kendria E. Pearson
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, Colorado 80202
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	07 NOV 2013
Applicant's or agent's file reference 6583-452-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US13/55493	18 August 2013 (18.08.2013)	17 August 2012 (17.08.2012)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/00, 13/00; H04N 5/445, 7/14 (2013.01)
USPC - 725/037, 39; 348/14.07

Applicant Flextronics AP, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to th IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fom PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	30 October 2013 (30.10.2013)	Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55493

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55493

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	NONE	YES
	Claims	1-20	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-20 lack novelty under PCT Article 33(2) as being anticipated by US 5,539,479 A Bertram.

As to claim 1, Bertram discloses a method, comprising: presenting, via a display of an intelligent television (TV) (set top devices used as accessories to television receivers may be incorporated directly into which are here called intelligent television receivers, column 33, lines 29-33), live TV broadcast content, wherein the live TV broadcast content is presented to a first portion of the display (the video stream images is displayed in a minor portion of the available screen area (the upper right hand corner) almost as if it were a so-called "picture in picture", with the remainder of the viewing field being occupied by listing of available choices, Figure 17, column 41, lines 34-39); receiving an application panel input at the intelligent TV, wherein the application panel input corresponds to at least one of a categories input, a favorites input, and a search input (When viewed channels or signal sources are thus constructed into a list, the list may be named such as "Fri Night" for favorite programs (favorites input) viewed that evening or "Kids" for programming specifically selected by or for children (categories input) and saved in system memory, Figure 17, column 41, lines 42-47); determining, by a processor associated with the intelligent TV and in response to receiving the application panel input, live TV application panel content that corresponds to a live TV application and the application panel input received (a processor controlling the video display to execute a control program formulated in a particularly concise language and controlling the display of menus and the like. Menus are displayed as overlays onto a live motion video image, Abstract); retrieving, from at least one source, the live TV application panel content (the display controller modifies displayed visual images by displaying over a portion of a live video images a menu display from which the human observer may select further modifications, FIGS. 13 through 15 column 40, lines 64-67); and presenting; via the display, the live TV application panel content to a second portion of the display, wherein the second portion of the display is associated with a live TV application panel, and wherein the live TV application panel overlaps at least a portion of the presented live TV broadcast content (the video stream images (live TV) is displayed in a minor portion of the available screen area (the upper right hand corner) almost as if it were a so-called "picture in picture", with the remainder of the viewing field being occupied by listing of available choices (TV application panel), Figure 17, column 41, lines 34-39).

As to claim 2, Bertram discloses the method of claim 1, wherein determining the live TV application panel content further comprises: referring to rules stored in a memory (the CPU may access control programs stored, for example, in the set top device system memory 45 so as to be accessible to the processor, for controlling the display of visual images by said video display device, column 8, lines 34-39), wherein the rules include one or more application panel content fields mapped to at least one live TV application panel content type (a human observer may cause a processor controlling the video display to execute a control program formulated in a particularly concise language (rules) and controlling the display of menus (TV application panel), Abstract); comparing a live TV application panel content type associated with the presented live TV broadcast content with the one or more mapped application panel content fields (a processor controlling the video display to execute a control program formulated in a particularly concise language and controlling the display of menus and the like. Menus are displayed as overlays onto a live motion video image, Abstract); determining select application panel content fields from the one or more mapped application panel content fields (The application begins by displaying Card1. The title of the Card is "Menu 1" and the selectable items are "Weather" (Selection A) and "Sports" (Selection B). If "Weather" is selected, it creates Card2, since this is the action in the "Selection A" line. Card2 is a flow card which immediately displays Card3 since the condition "1=-1" is true, column 37, line 52 through column 38, line 2); and including the select application panel content fields in the live TV application panel content for retrieval (selecting "Menu" (select application panel) will take an observer to the screen of FIG. 17, where the video stream images is displayed in a minor portion of the available screen area (the upper right hand corner) almost as if it were a so-called "picture in picture", with the remainder of the viewing field being occupied by listing of available choices, column 41, lines 33-38).

As to claim 3, Bertram discloses the method of claim 1, wherein the live TV application panel content is retrieved from two or more signal sources (the video stream images (source 1) is displayed in a minor portion of the available screen area (the upper right hand corner) almost as if it were a so-called "picture in picture", with the remainder of the viewing field being occupied by listing of available choices (source 2), column 41, lines 33-38).

As to claim 4, Bertram discloses the method of claim 1, wherein the at least one source is at least one of a local memory, a remote memory, a broadcast signal, and a memory located across a network (The television receiver may be one configured to receive broadcast signals of NTSC or PAL standards, column 4, lines 62-64).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55493

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
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-***-Continued from Box V: Citations and Explanations-***-

As to claim 5, Bertram discloses the method of claim 1, wherein at least one of the live TV application panel content and the live TV application panel is at least partially transparent, and wherein the presented live TV broadcast content is visible beneath the presented live TV application panel content (a user may cause a first level of menu to appear in overlay over the video stream and where the comparator may also be used to provide a pixel plane effect, to give transparent colors (partially transparent), column 37, lines 61-62 and column 19, lines 43-46).

As to claim 6, Bertram discloses the method of claim 1, wherein a size of the first portion is maintained upon presenting the live TV application panel content via the second portion of the display (a major portion (size) of the available field is occupied by the video stream image the image of a weather map, partially obscured in FIGS. 14 and 15 by the overlain menus and informational text while a minor portion (size) is occupied by the displayed menu(s), Figure 13, column 41, lines 1-5).

As to claim 7, Bertram discloses the method of claim 1, wherein the presented live TV broadcast content includes at least one of a movie, a TV program, a sport event, a TV special, and a radio program (The application begins by displaying Card1. The title of the Card is "Menu 1" and the selectable items are "Weather" Selection A and "Sports" Selection B, Figures 17 and 18, column 37, lines 62-66).

As to claim 8, Bertram discloses the method of claim 7, wherein the presented live TV application panel content includes at least one of a category, a channel identifier, a thumbnail graphic, an electronic program guide (EPG), a favorite, and a search term (the remote control functions enables use of the embodied icons (thumbnail graphic) such as the iconic representations of "channel up" or "channel down" (channel identifier) found in remote control functionality for navigation among programming choices. However, by selecting "List" or "Menu", other services may be accessed, Figures 17 and 18, column 41, lines 27-33).

As to claim 9, Bertram discloses a tangible, non-transitory computer readable medium having instructions stored thereon that, when executed by a processor (the CPU may access control programs stored, for example, in the set top device system memory 45 so as to be accessible to the processor, for controlling the display of visual images by said video display device, column 8, lines 34-39), perform the method comprising: presenting, via a display of an intelligent television (TV) (set top devices used as accessories to television receivers may be incorporated directly into which are here called intelligent television receivers, column 33, lines 29-33), live TV broadcast content, wherein the live TV broadcast content is presented to a first portion of the display (the video stream images is displayed in a minor portion of the available screen area (the upper right hand corner) almost as if it were a so-called "picture in picture", with the remainder of the viewing field being occupied by listing of available choices, Figure 17, column 41, lines 34-39); receiving an application panel input at the intelligent TV, wherein the application panel input corresponds to at least one of a categories input, a favorites input, and a search input (When viewed channels or signal sources are thus constructed into a list, the list may be named such as "Fri Night" for favorite programs (favorites input) viewed that evening or "Kids" for programming specifically selected by or for children (categories input) and saved in system memory, Figure 17, column 41, lines 42-47); determining, by a processor associated with the intelligent TV and in response to receiving the application panel input, live TV application panel content that corresponds to a live TV application and the application panel input received (a processor controlling the video display to execute a control program formulated in a particularly concise language and controlling the display of menus and the like. Menus are displayed as overlays onto a live motion video image, Abstract); retrieving, from at least one source, the live TV application panel content (the display controller modifies displayed visual images by displaying over a portion of a live video images a menu display from which the human observer may select further modifications, FIGS. 13 through 15 column 40, lines 64-67); and presenting, via the display, the live TV application panel content to a second portion of the display, wherein the second portion of the display is associated with a live TV application panel, and wherein the live TV application panel overlaps at least a portion of the presented live TV broadcast content (the video stream images (live TV) is displayed in a minor portion of the available screen area (the upper right hand corner) almost as if it were a so-called "picture in picture", with the remainder of the viewing field being occupied by listing of available choices (TV application panel), Figure 17, column 41, lines 34-39).

As to claim 10, Bertram discloses the tangible, non-transitory computer readable medium of claim 9, wherein determining the live TV application panel content of the method further comprises: referring to rules stored in a memory (the CPU may access control programs stored, for example, in the set top device system memory 45 so as to be accessible to the processor, for controlling the display of visual images by said video display device, column 8, lines 34-39), wherein the rules include one or more application panel content fields mapped to at least one live TV application panel content type (a human observer may cause a processor controlling the video display to execute a control program formulated in a particularly concise language (rules) and controlling the display of menus (TV application panel), Abstract); comparing a live TV application panel content type associated with the presented live TV broadcast content with the one or more mapped application panel content fields (a processor controlling the video display to execute a control program formulated in a particularly concise language and controlling the display of menus and the like. Menus are displayed as overlays onto a live motion video image, Abstract); determining select application panel content fields from the one or more mapped application panel content fields (The application begins by displaying Card1. The title of the Card is "Menu 1" and the selectable items are "Weather" (Selection A) and "Sports" (Selection B). If "Weather" is selected, it creates Card2, since this is the action in the "Selection A" line. Card2 is a flow card which immediately displays Card3 since the condition "1=-1" is true, column 37, line 52 through column 38, line 2); and including the select application panel content fields in the live TV application panel content for retrieval (selecting "Menu" (select application panel) will take an observer to the screen of FIG. 17, where the video stream images is displayed in a minor portion of the available screen area (the upper right hand corner) almost as if it were a so-called "picture in picture", with the remainder of the viewing field being occupied by listing of available choices, column 41, lines 33-38).

As to claim 11, Bertram discloses the tangible, non-transitory computer readable medium of claim 9, wherein the live TV application panel content is retrieved from two or more signal sources (the video stream images (source 1) is displayed in a minor portion of the available screen area (the upper right hand corner) almost as if it were a so-called "picture in picture", with the remainder of the viewing field being occupied by listing of available choices (source 2), column 41, lines 33-38).

-***-Continued Within the Next Supplemental Box-***-

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INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55493

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In case **the space in any of the preceding boxes is not sufficient.**
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As to claim 12, Bertram discloses the tangible, non-transitory computer readable medium of claim 9, wherein the at least one source is at least one of a local memory, a remote memory, a broadcast signal, and a memory located across a network (The television receiver may be one configured to receive broadcast signals of NTSC or PAL standards, column 4, lines 62-64).

As to claim 13, Bertram discloses the tangible, non-transitory computer readable medium of claim 9, wherein at least one of the live TV application panel content and the live TV application panel is at least partially transparent, and wherein the presented live TV broadcast content is visible beneath the presented live TV application panel content (a user may cause a first level of menu to appear in overlay over the video stream and where the comparator may also be used to provide a pixel plane effect, to give transparent colors (partially transparent), column 37, lines 61-62 and column 19, lines 43-46).

As to claim 14, Bertram discloses the tangible, non-transitory computer readable medium of claim 9, wherein a size of the first portion is maintained upon presenting the live TV application panel content via the second portion of the display (a major portion (size) of the available field is occupied by the video stream image the image of a weather map, partially obscured in FIGS. 14 and 15 by the overlain menus and informational text while a minor portion (size) is occupied by the displayed menu(s), Figure 13, column 41, lines 1-5).

As to claim 15, Bertram discloses the tangible, non-transitory computer readable medium of claim 9, wherein the application panel input is provided via an input device associated with the intelligent TV information (the remote control functions enables use of the embodied icons such as the iconic representations of "channel up" or "channel down" found in remote control functionality for navigation among programming choices, Figures 17 and 18, column 41, lines 27-33).

As to claim 16, Bertram discloses the tangible, non-transitory computer readable medium of claim 9, wherein the presented live TV broadcast content includes at least one of a movie, a TV program, a sport event, a TV special, and a radio program (The application begins by displaying Card1. The title of the Card is "Menu 1" and the selectable items are "Weather" Selection A and "Sports" Selection B, Figures 17 and 18, column 37, lines 62-66).

As to claim 17, Bertram discloses the tangible, non-transitory computer readable medium of claim 16, wherein the presented live TV application panel content includes at least one of a program description, a channel identifier, a thumbnail graphic, an electronic program guide (EPG), and preference information (the remote control functions enables use of the embodied icons (thumbnail graphic) such as the iconic representations of "channel up" or "channel down" (channel identifier) found in remote control functionality for navigation among programming choices. However, by selecting "List" or "Menu", other services may be accessed, Figures 17 and 18, column 41, lines 27-33).

As to claim 18, Bertram discloses a system, comprising: an intelligent television (TV) having a display and a tuner, wherein the tuner is configured to receive and convert broadcast content signals to be displayed by the display (set top boxes which may be in the form of cable tuner systems, column 4 lines 28-34); an input device associated with the intelligent TV (set top devices used as accessories to television receivers may be incorporated directly into which are here called intelligent television receivers, column 33, lines 29-33); a memory (the processor 39 is operatively connected with system memory 45, column 6, lines 58-59); and a microprocessor operable to (a microprocessor 48 functioning as a central processing unit or CPU, column 6, lines 59-60): present, via a display of an intelligent television (TV) (set top devices used as accessories to television receivers may be incorporated directly into which are here called intelligent television receivers, column 33, lines 29-33), live TV broadcast content, wherein the live TV broadcast content is presented to a first portion of the display (the video stream images is displayed in a minor portion of the available screen area (the upper right hand corner) almost as if it were a so-called "picture in picture", with the remainder of the viewing field being occupied by listing of available choices, Figure 17, column 41, lines 34-39); receive an application panel input at the intelligent TV, wherein the application panel input corresponds to at least one of a categories input, a favorites input, and a search input (When viewed channels or signal sources are thus constructed into a list, the list may be named such as "Fri Night" for favorite programs (favorites input) viewed that evening or "Kids" for programming specifically selected by or for children (categories input) and saved in system memory, Figure 17, column 41, lines 42-47); determine, by a processor associated with the intelligent TV and in response to receiving the application panel input, live TV application panel content that corresponds to a live TV application and the application panel input received (a processor controlling the video display to execute a control program formulated in a particularly concise language and controlling the display of menus and the like. Menus are displayed as overlays onto a live motion video image, Abstract); retrieve, from at least one source, the live TV application panel content (the display controller modifies displayed visual images by displaying over a portion of a live video images a menu display from which the human observer may select further modifications, FIGS. 13 through 15 column 40, lines 64-67); and present, via the display, the live TV application panel content to a second portion of the display, wherein the second portion of the display is associated with a live TV application panel, and wherein the live TV application panel overlaps at least a portion of the presented live TV broadcast content (the video stream images (live TV) is displayed in a minor portion of the available screen area (the upper right hand corner) almost as if it were a so-called "picture in picture", with the remainder of the viewing field being occupied by listing of available choices (TV application panel), Figure 17, column 41, lines 34-39).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55493

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
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-***-Continued from Previous Supplemental Box-***-

As to claim 19, Bertram discloses the system of claim 18, wherein the microprocessor is further operable to: refer to rules stored in a memory (the CPU may access control programs stored, for example, in the set top device system memory 45 so as to be accessible to the processor, for controlling the display of visual images by said video display device, column 8, lines 34-39), wherein the rules include one or more application panel content fields mapped to at least one live TV application panel content type (a human observer may cause a processor controlling the video display to execute a control program formulated in a particularly concise language (rules) and controlling the display of menus (TV application panel), Abstract); compare a live TV application panel content type associated with the presented live TV broadcast content with the one or more mapped application panel content fields (a processor controlling the video display to execute a control program formulated in a particularly concise language and controlling the display of menus and the like. Menus are displayed as overlays onto a live motion video image, Abstract); determine select application panel content fields from the one or more mapped application panel content fields (The application begins by displaying Card1. The title of the Card is "Menu 1" and the selectable items are "Weather" (Selection A) and "Sports" (Selection B). If "Weather" is selected, it creates Card2, since this is the action in the "Selection A" line. Card2 is a flow card which immediately displays Card3 since the condition "1=-1" is true, column 37, line 52 through column 38, line 2); and include the select application panel content fields in the live TV application panel content for retrieval (selecting "Menu" (select application panel) will take an observer to the screen of FIG. 17, where the video stream images is displayed in a minor portion of the available screen area (the upper right hand corner) almost as if it were a so-called "picture in picture", with the remainder of the viewing field being occupied by listing of available choices, column 41, lines 33-38).

As to claim 20, Bertram discloses the system of claim 18, wherein at least one of the live TV application panel content and the live TV application panel is at least partially transparent, and wherein the presented live TV broadcast content is visible beneath the presented live TV application panel content (a user may cause a first level of menu to appear in overlay over the video stream and where the comparator may also be used to provide a pixel plane effect, to give transparent colors (partially transparent), column 37, lines 61-62 and column 19, lines 43-46).

Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:

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Date of mailing *(day/month/year)*	
26 February 2015 (26.02.2015)	
Applicant's or agent's file reference	IMPORTANT NOTICE
6583-453-PCT	

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/036828	16 April 2013 (16.04.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

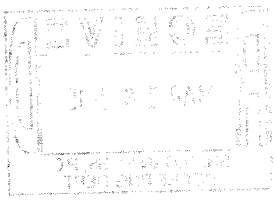
The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Nora Lindner

e-mail: pt05.pct@wipo.int

Form PCT/IB/326 (January 2004)



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-453-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/036828	International filing date *(day/month/year)* 16 April 2013 (16.04.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 10 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Nora Lindner e-mail: pt05.pct@wipo.int

Form PCT/IB/373 (January 2004)

From the
INTERNATIONAL SEARCHING AUTHORITY

To: THAINE LENNOX-GENTLE
SHERIDAN ROSS P.C.
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	28 JUN 2013
Applicant's or agent's file reference 6583-453-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/036828	16 April 2013	14 June 2012

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 7/173 (2013.01)
USPC - 725/34

Applicant FLEXTRONICS AP, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	05 June 2013	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
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Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
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Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-24	YES
	Claims	None	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-24	NO
Industrial applicability (IA)	Claims	1-24	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-10, 12, and 14-24 lack an inventive step under PCT Article 33(3) as being obvious over Macrae et al, hereinafter Macrae in view of Ellis et al, hereinafter Ellis.

Regarding Claim 1, Macrae teaches a method for navigating through channels on a television (paragraph 29 for the user using a television channel guide and selecting a program to watch with figure 1A element 10 for an electronic program guide), comprising: receiving a first directional input via an input device associated with the television (paragraph 29 for using a remote control or user input device associated with the television and paragraph 33 for moving through the guide using arrows or a first directional input on arrow keys elements 28 and 30 for going up and down through the guide); determining, based on a first direction associated with the first directional input (paragraph 33 for moving the cursor on the guide using arrow keys elements 28 and 30 to highlight one of the nine program on the guide in the first vertical direction both upward and downwards), a display of at least one channel information card via the television (paragraph 35 for selecting the information key on the remote control to display an information box or channel information card for the given program and paragraph 36 for means to customize the location and size of the information on the screen); retrieving, from a memory, a first image that is representative of broadcast content playing on a first channel (figure 1A element 14 for having a grid guide with a first image of the stored freeze frame image, paragraph 58 for having the microprocessor having storing means to capture an image of Channel A or means to store an image and downloading the image or retrieving the image to access a website, with paragraph 78 for showing logos and graphics associated with channels), wherein the first image is retrieved from the memory in the absence of tuning to the first channel (paragraph 36 for having an advertisement or image for a future program as a virtual ad from RAM or memory for a channel, therefore not tuning to the future program but showing an image to the user see the advertisement for the future program and paragraph 78 for having a pointer associated with the logo and graphics to an episode of a show in a database); displaying, via the television, the first image on a first channel information card (paragraph 59 for using the first image on the first channel A as part of an interactive television display and figure 1A element 14 for a first advertisement card with information for other channels with paragraph 78 for the advertisement have episode and airtime information for a channel or show along with logo or first image information); receiving a second directional input via the input device (paragraph 33 for moving the cursor on the guide using arrow keys elements 32 and 34 to highlight one of the nine program on the guide in the horizontal direction or a second direction); determining, based on a second direction associated with the second directional input (paragraph 29 for using a remote control input device and paragraph 33 for using the arrows or directional input to move the guide cursor in a horizontal direction to view future programs), a second channel information card to display via the television (figure 1A element 16 for having a second image location for putting information on the electronic guide element 10 with paragraph 58 for means to retrieve a stored image of a live broadcast to display in the ad location element 16), wherein the second channel information card includes a second image that is representative of broadcast content playing on a second channel (figure 1A element 16 for having means to display a second stored image on the guide display with paragraph 36 for the image having information on future programs and paragraph 79 for using graphic logos along with the channel program information), and wherein the second image is retrieved from the memory in the absence of tuning to the second channel (paragraph 59 for storing the freeze frame image in RAM and using it as part of an interactive display anytime the microprocessor is triggered, paragraph 78 for having graphics and logo information in a database therefore accessing without having to tune to a channel such as accessing the NBC logo); and displaying, via the television, the second image on the second channel information card (figure 1A element 16 for displaying location for the second stored image and paragraph 36 for watching the selected program). Macrae does not explicitly teach a presentation layout for each of the channel information cards. Ellis has an electronic program schedule system with product ordering capability which includes a data processor for receiving program schedule information for a plurality of programs (abstract) and teaches a presentation layout for each of the channel information cards (figure 11 for a presentation display for an individual channel card with an image and channel information and paragraph 127 for having a multiple window or split screen operation for browsing channels and images or previews of channels with paragraph 218 for scrolling through different movies and formats or using directional movement to select channels). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the layout as taught by Ellis in the media method of Macrae in order to simultaneously display multiple broadcast programs on a single screen (Ellis, paragraph 127).

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding Claim 2, Macrae teaches detecting a selection input (paragraph 29 for using a remote control as a selection input device), wherein the selection input is at least one of a timed response to a channel navigation condition and an active selection provided via the input device, and wherein the selection input corresponds to a selection of a channel associated with a displayed channel information card (paragraph 33 for selecting a channel by highlighting the channel using the cursor and the arrows to locate the desired program with the active channel shown in the PIP window figure 1A element 12); and tuning, in response to detecting the selection input (paragraph 29 for using the remote control to select a channel to view or to tune to using the selection input of the remote control with paragraph 37 for using the guide system to tune to a desired channel), the television to receive and display live broadcast content of the channel associated with the selected channel information card (paragraph 29 for pressing the select button on the remote control to watch a program in full screen mode).

Regarding Claim 3, Macrae teaches wherein the memory is associated with an electronic programming guide (EPG) (figure 1A element 10 for an electronic programming guide with channels element 52).

Regarding Claim 4, Macrae teaches wherein the first image is an enlarged thumbnail graphic retrieved from an EPG (figure 1A element 14 for the first image is a enlarged thumbnail graphic on the left side of the screen in the middle section under the picture in picture of the current program and above the second thumbnail image with paragraph 24 for having the positions and sizes of the elements of the guide on the screen being customizable).

Regarding Claim 5, Macrae teaches wherein the memory is associated with the television, and wherein the first image is configured to indicate at least one of (paragraph 58 for taking an image shot of Channel A or a first image and storing the image by capturing the video frame) an availability of broadcast content preview, an availability of broadcast content, and an availability of a broadcast signal associated with the first channel (paragraph 59 for taking the stored image in RAM and using it as part of an interactive screen display for selecting or purchasing a product; figure 1A element 16 for having means to display a second stored image on the guide display with paragraph 36 for the image having information on future programs).

Regarding Claim 6, Macrae teaches wherein the directional input is an upward directional input or a downward directional input (paragraph 33 for having a remote control to move the cursor in an upward direction element 30 or a downward direction element 32 using arrows on the remote control device), wherein the upward directional input has an upward direction, and the downward directional input has a downward direction (paragraph 33 for having a remote control to move the cursor in an upward direction element 30 or a downward direction element 32 using arrows on the remote control device covering both upward and downward directions).

Regarding Claim 7, Macrae teaches wherein the presentation layout is arranged to display a single channel information card via the television (paragraph 24 for showing an information box or information card for the single highlighted channel as shown in figure 1A for the highlighted single channel show prime time live highlighted with the cursor element 36 with the information card element 24).

Regarding Claim 8, Macrae teaches wherein the second directional input has an upward direction (paragraph 33 for having a remote control to move the cursor in an upward direction element 30 using arrows on the remote control device), and wherein the upward direction moves the first channel information card upwardly out of a selection focus area of the television while (figure 1A element 52 for a grid tile on the electronic guide element 10 for having the selected channels in the focus area with the highlighted channel element 36 along with the associated information card element 24). Macrae does not explicitly teach simultaneously moving the second channel information card upwardly into the selection focus area of the television. Ellis has an electronic program schedule system with product ordering capability which includes a data processor for receiving program schedule information for a plurality of programs (abstract) and teaches simultaneously moving the second channel information card upwardly into the selection focus area of the television (paragraph 127 for having a multiple window or split screen operation for browsing channels and images or previews of channels simultaneously using a browse feature or directional moving of information). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the layout as taught by Ellis in the media method of Macrae in order to simultaneously display multiple broadcast programs on a single screen (Ellis, paragraph 127).

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International application No. PCT/US2013/036828

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**

Continuation of:

Regarding Claim 9, Macrae teaches wherein the second directional input has a downward direction (paragraph 33 for having a remote control to move the cursor in a downward direction element 32 using arrows on the remote control device), and wherein the downward direction moves the first channel information card downwardly out of a selection focus area of the television (figure 1A element 52 for a grid tile on the electronic guide element 10 for having the selected channels in the focus area with the highlighted channel element 36 along with the associated information card element 24). Macrae does not explicitly teach while simultaneously moving the second channel information card downwardly into the selection focus area of the television. Ellis has an electronic program schedule system with product ordering capability which includes a data processor for receiving program schedule information for a plurality of programs (abstract) and teaches while simultaneously moving the second channel information card downwardly into the selection focus area of the television (paragraph 127 for having a multiple window or split screen operation for browsing channels and images or previews of channels simultaneously using a browse feature or directional moving of information). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the layout as taught by Ellis in the media method of Macrae in order to simultaneously display multiple broadcast programs on a single screen (Ellis, paragraph 127).

Regarding Claim 10, Macrae teaches wherein the first and second directional inputs are provided via a channel up/down button of an input device (paragraph 33 for having a remote control to move the cursor in an upward direction element 30 or a downward direction element 32 using arrows on the remote control device).

Regarding Claim 12, Macrae teaches wherein the second channel information card determined to display via the television is selected from a first group of channel numbers (figure 1A element 16 for displaying a second channel information card with a second advertisement with paragraph 40 for using a specialized guide for sports or a first group of channels associated with sports information).

Regarding Claim 14, Macrae teaches wherein the directional input is a leftward directional input or a rightward directional input (paragraph 33 for having a remote control with left and right arrows for input to highlight channel titles on the grid television guide), wherein the leftward directional input has a leftward direction (paragraph 33 for going in the left horizontal direction element 34), and the rightward directional input has a rightward direction (paragraph 33 for going in the right horizontal directions element 32).

Regarding Claim 15, Macrae teaches wherein the presentation layout is arranged to display a plurality of channel information cards that are overlaid on content playing via the television (paragraph 24 for having all the information elements of the screen of the television display being customizable with information card element 24 and two additional image locations elements 14, and 16 and paragraph 49 for the programming guide being translucent and overlaid on screen).

Regarding Claim 16, Macrae teaches, wherein the second directional input has a leftward direction (paragraph 33 for having a remote control with left and right arrows for input to highlight channel titles on the grid television guide), and wherein the leftward direction moves a selection focus area associated with the first channel information card to the second channel information card (paragraph 33 for having arrows for moving the information left and right using elements 32 and 34), where the second channel information card is arranged on the left of the first channel information card (paragraph 33 for using the right and left arrow keys for moving horizontally around the guide grid with means to view the future listings for the highlighted channels).

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In case **the space in any of the preceding boxes is not sufficient.**

Continuation of:

Regarding Claim 17, Macrae teaches a tangible, non-transitory computer readable medium having instructions stored thereon that, when executed by a processor (paragraph 40 for having and interactive guide giving the user information on specialized channels and linking to external websites and storing information in a RAM or having instructions stored on a processor), perform the method comprising: receiving a first directional input via an input device associated with a television (paragraph 29 for using a remote control or user input device associated with the television and paragraph 33 for moving through the guide using arrows or a first directional input on arrow keys elements 28 and 30 for going up and down through the guide); determining, based on a first direction associated with the first directional input (paragraph 33 for moving the cursor on the guide using arrow keys elements 28 and 30 to highlight one of the nine program on the guide in the first vertical direction both upward and downwards), a display for at least one channel information card via the television (paragraph 35 for selecting the information key on the remote control to display an information box or channel information card for the given program and paragraph 36 for means to customize the location and size of the information on the screen); retrieving, from a memory, a first image that is representative of broadcast content playing on a first channel (figure 1A element 14 for having a grid guide with a first image of the stored freeze frame image, paragraph 58 for having the microprocessor having storing means to capture an image of Channel A or means to store an image and downloading the image or retrieving the image to access a website, with paragraph 78 for showing logos and graphics associated with channels), wherein the first image is retrieved from the memory in the absence of tuning to the first channel (figure 1A element 14 for having a grid guide with a first image of the stored freeze frame image, paragraph 58 for having the microprocessor having storing means to capture an image of Channel A or means to store an image and downloading the image or retrieving the image to access a website, with paragraph 78 for showing logos and graphics associated with channels); displaying, via the television, the first image on a first channel information (paragraph 59 for using the first image on the first channel A as part of an interactive television display and figure 1A element 14 for a first advertisement card with information for other channels with paragraph 78 for the advertisement have episode and airtime information for a channel or show along with logo or first image information); receiving a second directional input via the input device (paragraph 33 for moving the cursor on the guide using arrow keys elements 32 and 34 to highlight one of the nine program on the guide in the horizontal direction or a second direction); determining, based on a second direction associated with the second directional input (paragraph 29 for using a remote control input device and paragraph 33 for using the arrows or directional input to move the guide cursor in a horizontal direction to view future programs), a second channel information card to display via the television (figure 1A element 16 for having a second image location for putting information on the electronic guide element 10 with paragraph 58 for means to retrieve a stored image of a live broadcast to display in the ad location element 16), wherein the second channel information card includes a second image that is representative of broadcast content playing on a second channel (figure 1A element 16 for having means to display a second stored image on the guide display with paragraph 36 for the image having information on future programs and paragraph 79 for using graphic logos along with the channel program information), and wherein the second image is retrieved from the memory in the absence of tuning to the second channel (paragraph 59 for storing the freeze frame image in RAM and using it as part of an interactive display anytime the microprocessor is triggered, paragraph 78 for having graphics and logo information in a database therefore accessing without having to tune to a channel such as accessing the NBC logo); and displaying, via the television, the second image on the second channel information card (figure 1A element 16 for displaying location for the second stored image and paragraph 36 for watching the selected program). Macrae does not explicitly teach a presentation layout for each of the channel information cards. Ellis has an electronic program schedule system with product ordering capability which includes a data processor for receiving program schedule information for a plurality of programs (abstract) and teaches a presentation layout for each of the channel information cards (figure 11 for a presentation display for an individual channel card with an image and channel information and paragraph 127 for having a multiple window or split screen operation for browsing channels and images or previews of channels with paragraph 218 for scrolling through different movies and formats or using directional movement to select channels). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the layout as taught by Ellis in the media method of Macrae in order to simultaneously display multiple broadcast programs on a single screen (Ellis, paragraph 127).

Regarding Claim 18, Macrae wherein the method further comprises: detecting a selection input (paragraph 29 for using a remote control as a selection input device), wherein the selection input is at least one of a timed response to a channel navigation condition and an active selection provided via the input device, and wherein the selection input corresponds to a selection of a channel associated with a displayed channel information card (paragraph 33 for selecting a channel by highlighting the channel using the cursor and the arrows to locate the desired program with the active channel shown in the PIP window figure 1A element 12); and tuning, in response to detecting the selection input, the television to receive and display live broadcast content of the channel associated with the selected channel information card (paragraph 29 for pressing the select button on the remote control to watch a program in full screen mode).

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

Regarding Claim 19, Macrae teaches wherein the first image is an enlarged thumbnail graphic retrieved from an EPG (figure 1A element 10 for an electronic programming guide with channels element 52).

Regarding Claim 20, Macrae teaches wherein the memory is associated with the television (paragraph 78 for having a database or memory means for storing images such as logos in the IPG database with the IPG associated with the television), and wherein the first image is configured to indicate at least one of an availability of broadcast content preview, an availability of broadcast content, and an availability of a broadcast signal associated with the first channel (paragraph 78 for having a logo or graphics or first image that represents an episode of a program or the availability of a broadcast with content information such as the network, episode, and title; figure 1A element 16 for having means to display a second stored image on the guide display with paragraph 36 for the image having information on future programs).

Regarding Claim 21, Macrae teaches wherein the directional input is an upward directional input or a downward directional input (paragraph 33 for having a remote control to move the cursor in an upward direction element 30 or a downward direction element 32 using arrows on the remote control device), wherein the upward directional input has an upward direction, and the downward directional input has a downward direction (paragraph 33 for having a remote control to move the cursor in an upward direction element 30 or a downward direction element 32 using arrows on the remote control device covering both upward and downward directions).

Regarding Claim 22, Macrae teaches wherein the second directional input has an upward direction (paragraph 33 for having a remote control to move the cursor in an upward direction element 30 or a downward direction element 32 using arrows on the remote control device), and wherein the upward direction moves the first channel information card upwardly out of a selection focus area of the television (figure 1A element 52 for a grid tile on the electronic guide element 10 for having the selected channels in the focus area with the highlighted channel element 36 along with the associated information card element 24 and paragraph). Macrae does not explicitly teach while simultaneously moving the second channel information card upwardly into the selection focus area of the television. Ellis has an electronic program schedule system with product ordering capability which includes a data processor for receiving program schedule information for a plurality of programs (abstract) and teaches while simultaneously moving the second channel information card upwardly into the selection focus area of the television (paragraph 127 for having a multiple window or split screen operation for browsing channels and images or previews of channels simultaneously using a browse feature or directional moving of information). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the layout as taught by Ellis in the media method of Macrae in order to simultaneously display multiple broadcast programs on a single screen (Ellis, paragraph 127).

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding Claim 23, Macrae discloses a system for navigating through broadcast content channels (paragraph 29 for the user using a television channel guide and selecting a program to watch with figure 1A element 10 for an electronic program guide), comprising: a television having a display and a tuner (figure 1A element 10 for a television displayer showing a TV program in the window in element 12, and paragraph 28 for having a tuner for the TV with the last channel displayed in the PIP window), wherein the tuner is configured to receive and convert broadcast content signals to be displayed by the display (paragraph 28 for using the Tuner to display a television program or the last program watched in the PIP window of the guide and showing the currently telecast channel); an input device associated with the television (paragraph 29 for using a remote control device with a guide button to display the guide on the television); a memory (paragraph 40 for having and interactive guide giving the user information on specialized channels and linking to external websites and storing information in a RAM or having instructions stored on a processor); and a microprocessor operable to: receive a first directional input via the input device associated with the television (paragraph 29 for using a remote control or user input device associated with the television and paragraph 33 for moving through the guide using arrows or a first directional input on arrow keys elements 28 and 30 for going up and down through the guide); determine, based on a first direction associated with the first directional input (paragraph 33 for moving the cursor on the guide using arrow keys elements 28 and 30 to highlight one of the nine program on the guide in the first vertical direction both upward and downwards), a display for at least one channel information card via the display of the television (paragraph 35 for selecting the information key on the remote control to display an information box or channel information card for the given program and paragraph 36 for means to customize the location and size of the information on the screen); retrieve, from the memory, a first image that is representative of broadcast content playing on a first channel (figure 1A element 14 for having a grid guide with a first image of the stored freeze frame image, paragraph 58 for having the microprocessor having storing means to capture an image of Channel A or means to store an image and downloading the image or retrieving the image to access a website, with paragraph 78 for showing logos and graphics associated with channels), wherein the first image is retrieved from the memory in the absence of tuning to the first channel (figure 1A element 14 for having a grid guide with a first image of the stored freeze frame image, paragraph 58 for having the microprocessor having storing means to capture an image of Channel A or means to store an image and downloading the image or retrieving the image to access a website, with paragraph 78 for showing logos and graphics associated with channels); display, via the display of the television, the first image on a first channel information card (paragraph 59 for using the first image on the first channel A as part of an interactive television display and figure 1A element 14 for a first advertisement card with information for other channels with paragraph 78 for the advertisement have episode and airtime information for a channel or show along with logo or first image information); receive a second directional input via the input device (paragraph 33 for moving the cursor on the guide using arrow keys elements 32 and 34 to highlight one of the nine program on the guide in the horizontal direction or a second direction); determine, based on a second direction associated with the second directional input (paragraph 29 for using a remote control input device and paragraph 33 for using the arrows or directional input to move the guide cursor in a horizontal direction to view future programs), a second channel information card to display via the television (figure 1A element 16 for having a second image location for putting information on the electronic guide element 10 with paragraph 58 for means to retrieve a stored image of a live broadcast to display in the ad location element 16), wherein the second channel information card includes a second image that is representative of broadcast content playing on a second channel (figure 1A element 16 for having means to display a second stored image on the guide display with paragraph 36 for the image having information on future programs and paragraph 79 for using graphic logos along with the channel program information), and wherein the second image is retrieved from the memory in the absence of tuning to the second channel (paragraph 59 for storing the freeze frame image in RAM and using it as part of an interactive display anytime the microprocessor is triggered, paragraph 78 for having graphics and logo information in a database therefore accessing without having to tune to a channel such as accessing the NBC logo); and display, via the display of the television, the second image on the second channel information card (figure 1A element 16 for displaying location for the second stored image and paragraph 36 for watching the selected program). Macrae does not explicitly disclose a presentation layout for each of the channel information cards. Ellis has an electronic program schedule system with product ordering capability which includes a data processor for receiving program schedule information for a plurality of programs (abstract) and discloses a presentation layout for each of the channel information cards (figure 11 for a presentation display for an individual channel card with an image and channel information and paragraph 127 for having a multiple window or split screen operation for browsing channels and images or previews of channels with paragraph 218 for scrolling through different movies and formats or using directional movement to select channels). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the layout as taught by Ellis in the media system of Macrae in order to simultaneously display multiple broadcast programs on a single screen (Ellis, paragraph 127).

Regarding Claim 24, Macrae discloses wherein the input device includes at least one of a channel up button, a channel down button, a directional pad having an up, down, left, and right buttons, and wherein each of the buttons is configured to provide a directional input to the television (paragraph 33 for having a remote control or input device with four buttons including the up and down buttons 28 and 30, as well as the left and right horizontal buttons element 32 and 34).

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Claims 11 and 13 lack an inventive step under PCT Article 33(3) as being obvious over Macrae in view of Ellis, and further in view of Kim et al, hereinafter Kim.

Regarding Claim 11, Macrae and Ellis teach the method as shown above. Macrae and Ellis do not explicitly teach wherein the first and second directional inputs are provided via a directional pad of an input device. Kim has a method for controlling display of information (abstract) and discloses wherein the first and second directional inputs are provided via a directional pad of an input device (paragraph 305 for using a directional keypad with the remote controller). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the input pad as taught by Kim in the media system of Macrae in order to remotely control the display device (Kim, paragraph 305).

Regarding Claim 13, Macrae teaches wherein the second channel information card determined to display via the television (figure 1A element 16 for displaying a second channel information card with a second advertisement) is selected from a second group of channel numbers (paragraph 51 for displaying a channel or program from a second group of channels that are selected based on the user profile and giving the user the option to watch or record the channel), and wherein the second group of channel numbers is associated with at least one stored user preference (paragraph 51 for determining a group of channels associated with the user's profile or stored preferences).

Claims 1-24 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

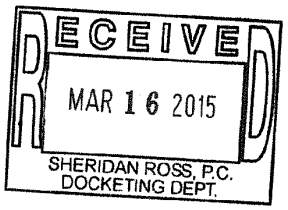
PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:



WILSON, Tadd, F.
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)*	
26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-454-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055340	16 August 2013 (16.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

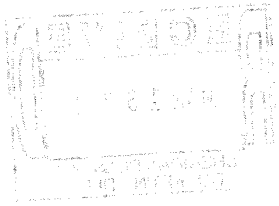
The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Athina Nickitas-Etienne

e-mail: pt04.pct@wipo.int

Form PCT/IB/326 (January 2004)



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-454-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055340	International filing date *(day/month/year)* 16 August 2013 (16.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 6 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☒	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Athina Nickitas-Etienne e-mail: pt04.pct@wipo.int

Form PCT/IB/373 (January 2004)

From the
INTERNATIONAL SEARCHING AUTHORITY

To: TADD F. WILSON
SHERIDAN ROSS P.C.
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	10 FEB 2014
Applicant's or agent's file reference 6583-454-PCT	FOR FURTHER ACTION See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055340	16 August 2013	17 August 2012

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 7/173 (2014.01)
USPC - 725/27

Applicant FLEXTRONICS AP, LLC

1. This opinion contains indications relating to the following items:

- [x] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [x] Box No. IV Lack of unity of invention
- [x] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	28 January 2014	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055340

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055340

Box No. IV Lack of unity of invention

1. ☒ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the appicable time limit:

   ☐ paid additional fees

   ☐ paid additional fees under protest and, where applicable, the protest fee

   ☐ paid additional fees under protest but the applicable protest fee was not paid

   ☒ not paid additional fees

2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is

   ☐ complied with

   ☒ not complied with for the following reasons:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-3, drawn to a method of automatically determining a live television source for scanning channels.
Group II, claims 4-6, 13-15, drawn to a method of storing user received media content according to a user defined organization criteria.
Group III, claims 7-9, drawn to a method of using electronic programming guide (EPG) information to present information on content listings.
Group IV, claims 10-12, drawn to a method of searching content in the television.

The inventions listed as Groups I, II, III or IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I invention: automatically determining a live television source for scanning channels and providing a list of the scanned channels as claimed therein is not present in the invention of Groups II, III or IV. The special technical feature of the Group II invention: storing user received media content according to a user defined organization criteria and presenting to the user the stored media as claimed therein is not present in the invention of Groups I, III or IV. The special technical feature of the Group III invention: receiving electronic programming guide (EPG) information including a content listing including information about two or more items of content, receiving a user-defined attribute and storing the attribute with the EPG information in the content listing as claimed therein is not present in the invention of Groups I, II or IV. The special technical feature of the Group IV invention: receiving a search query for content that contains two or more terms, returning a result, parsing the terms, and storing the query and result as claimed therein is not present in the invention of Groups I, II or III.

Groups I, II, III and IV lack unity of invention because even though the inventions of these groups require the technical feature of a method/system/computer readable medium for storing instruction to manage data associated with an intelligent television, store social media data and content in a memory and provide a user interface on the intelligent television, this technical feature is not a special technical feature as it does not make a contribution over the prior art in view of US 2012/0210370 A1 (KIM et al) 16 August 2012 (16.08.2012).

US 2012/0210370 A1 to KIM et al. disclose a method/system/computer readable medium for storing instruction to manage data associated with an intelligent television (abstract, para 121, 124-125), store social media data and content in a memory (para 123, 132-133) and provide a user interface on the intelligent television (para 121, 340).

Since none of the special technical features of the Group I, II, III or IV inventions are found in more than one of the inventions, unity of invention is lacking.

4. Consequently, this opinion has been established in respect of the following parts of the international application:

   ☐ all parts

   ☒ the parts relating to claims Nos. 1-3

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055340

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	2	YES
	Claims	1, 3	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-3	NO
Industrial applicability (IA)	Claims	1-3	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1, 3, lack novelty under PCT Article 33(2) as being anticipated by Moshiri et al., hereinafter referred to as Moshiri.

Regarding claims 1, 3, Moshiri discloses a method for managing data associated with an intelligent television, the method comprising [claim 1] (the fig.4 shows a method wherein the left most object 400 to be shortcut button to the home view screen and the object 406 is the Live TV button, upon selecting the 400 object the user interface immediately displays the home view shown in fig.3b, the fig.3b shows a GUI screen is a home view that refer to a currently displayed set of UI objects seen on a television 320, and displays applications 322 [intelligent television], "Live Tv", "Guide", "On Demand", "Photos", "Recorded" selectable by the user, abstract, para 0033-0035, 0048): a computer readable medium having stored thereon processor executable instructions that cause a computing system to execute a method, the instructions comprising [claim 3] (the system includes a processor for executing sequences of instructions contained in a memory device, causes the processor to execute, para 0050):
automatically determining a live television source (the fig.4 shows the left most object 400 to be shortcut button to the home view screen and the object 406 is the Live TV button, upon selecting the 400 object the user interface immediately displays the home view shown in fig.3b, the fig.3b shows a GUI screen is a home view that refer to a currently displayed set of UI objects seen on a television 320, and displays applications 322, "Live Tv" [live television source], "Guide" [live television source], "On Demand", "Photos", "Recorded" selectable by the user [upon the user selects the home view tab which presents the user with the buttons "Live Tv" and "Guide" along with other contents, these buttons provide the user with access to live television content this requires/means the determination of live tv source "live tv" interpreted as automatically determining a live television source], para 0033-0035, 0041, 0048);
automatically scanning for one or more live television channels in the live television source (when the user selects the "guide" application of the fig.3b, it results in displaying an electronic program guide of fig.10, the EPG on the television screen provides a list of live TV channels to view [upon the selecting of the guide application the user is presented with live television channels this is interpreted as automatically scanning for one or more live television channels], para 0048; fig.4 shows the object 406 displayed which is a Live TV button, upon actuating the object 406 it results in the user interface to immediately display live TV UI view [immediately displaying a live TV channel feed requires/means the determination of and automatically scanning for a live television channel/feed] that enables a user to quickly view television programs, the live TV UI view/feed 700 is shown in fig.7, with a channel section overlay 800 of fig.8 presented which is used to change channels, para 0041);
and providing a list of the live television channels (when the user selects the "guide" application of the fig.3b, it results in displaying an electronic program guide of fig.10, on the television screen and provides a list of live TV channels to view, para 0048).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055340

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Claim 2 lacks an inventive step under PCT Article 33(3) as being obvious over Moshiri in view of Kim et al., hereinafter referred to as Kim.

Regarding claim 2, Moshiri discloses an intelligent television system comprising (fig.3b shows a system which includes a GUI screen is a home view that refer to a currently displayed set of UI objects seen on a television 320, and displays applications 322 [intelligent television], "Live Tv", "Guide", "On Demand", "Photos", "Recorded" selectable by the user, abstract, para 0033-0035, 0048):
a memory and a processor in communication with the memory, the processor operable to: execute a live television source plug-in operable to (the system includes a processor for executing sequences of instructions contained in a memory device, causes the processor to execute, para 0050; when the user selects the "guide" application of the fig.3b, it results in displaying an electronic program guide of fig.10, on the television screen and provides a list of live TV channels to view [execute a live television source plug-in], para 0048):
automatically determine a live television source (the fig.4 shows the left most object 400 to be shortcut button to the home view screen and the object 406 is the Live TV button, upon selecting the 400 object the user interface immediately displays [automatically determining] the home view shown in fig.3b, the fig.3b shows a GUI screen is a home view that refer to a currently displayed set of UI objects seen on a television 320, and displays applications 322, "Live Tv" [live television source], "Guide" [live television source], "On Demand", "Photos", "Recorded" selectable by the user, para 0033-0035, 0048); automatically scan for one or more live television channels in the live television source (fig.4 shows the object 406 displayed which is a Live TV button, upon actuating the object 406 it results in the user interface to immediately display live TV UI view that enables a user to quickly view television programs, the live TV UI view/feed 700 is shown in fig.7 [automatically scanning a live television channel], with a channel section overlay 800 of fig.8 presented which is used to change channels, para 0041; when the user selects the "guide" application of the fig.3b, it results in displaying an electronic program guide of fig.10, on the television screen and provides a list of live TV channels to view [automatically scanning for one or more live television channels], para 0048);
and execute a user interface application in communication with the live television source plug-in, the user interface application operable to provide a list of the live television channels (fig.4 shows the object/applications 406 displayed which is a Live TV button, upon actuating the object 406 it results in the user interface to immediately display live TV UI view that enables a user to quickly view live television programs, the live TV UI view/feed 700 is shown in fig.7 [actuating the Live Tv icon 406 provides the users with live television channels, the application 406 is interpreted as a live television source plug-in with reference to the Applicant's Specs para 316, 317], with a channel section overlay 800 of fig.8 presented which is used to change channels, para 0041; when the user selects the "guide" application of the fig.3b, it results in displaying an electronic program guide [a user interface] of fig.10, on the television screen and provides a list of live TV channels to view [execute a user interface in communication with a live television source plug-in], para 0048), but lacks the teaching of a memory operable to store social media data.
Kim is in the field of a multi-functional display having a channel scan interface accessing the social network service of individuals (abstract) and teaches a memory operable to store social media data (figs.1 & 3 shows that the electronic device 300 functions as a first broadcasts receiver 100, which is a television, and further includes a storage unit 345, para 0131, 0149, 150; a Social network service (SNS) provides online social network among different users for media sharing and fig.85 shows the GUI 8500 includes a list of SNS sites 8511 to 8519 previously stored in the storage unit 345 [store social media data], para 0123, 0626; a storage unit is configured to store SNS account assigned to at least one channel number, para 0132, 0883). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Kim to incorporate a memory operable to store social media data into the invention of Moshiri. The motivation would have been to provide the users with an optimized integration of social network service with television channels (see Kim para 0133).

Claims 1-3 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

PEARSON, Kendria, E.
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-464-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055592	19 August 2013 (19.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Kihwan Moon
Facsimile No. +41 22 338 82 70	e-mail: pt01.pct@wipo.int

Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-464-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055592	International filing date *(day/month/year)* 19 August 2013 (19.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 9 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Kihwan Moon e-mail: pt01.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Kendria E. Pearson
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, Colorado 80202
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	10 MAR 2014
Applicant's or agent's file reference: 6583-464-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US13/55592	19 August 2013 (19.08.2013)	17 August 2012 (17.08.2012)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/0481 (2014.01)
USPC - 715/848

Applicant: Flextronics AP, LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	05 February 2014 (05.02.2014)	Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55592

Box No. I **Basis of this opinion**

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55592

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	2-20	YES
	Claims	1	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1 lacks novelty under PCT Article 33(2) as being anticipated by US 2011/0131506 A1 (Calissendorff).

As to claim1, Calissendorff discloses a method for providing multiple types of user interfaces in an intelligent television (a method to dynamically adapt a user interface to the available context in a smart TV (method for providing multiple types of user interfaces in an intelligent television), paragraph [0025], [0120]), the method comprising: receiving a selection for the user interface (the presentation model locates the command associated with the action (receiving a selection for the user interface), paragraph [0077]), wherein the user interface provides content (the presentation model uses the available content to generate the interface for the user (wherein the user interface provides content), paragraph [0091]); determining a type of content to provide (content is determined by which available items fulfill the criteria of a presentation group (determining a type of content to provide), paragraph [0047]); determining a type of user interface based on the type of content to provide, wherein a first type of content corresponds to a first user interface (available content with the known context is used to generate the user interface (determining a type of user interface based on the type of content to provide, wherein the first type of content corresponds to a first user interface), paragraph [0072]), a second type of content corresponds to a second user interface (when a change in context is detected, the available content is used to generate a new user interface (a second type of content corresponds to a second user interface), paragraphs [0110], [0112]), and a third type of content corresponds to a third user interface (when the user moves into a different context B or C, the interface will update to the new context (and a third type of content corresponds to a third user interface), figures 5a-5d, paragraph [0058]); providing the first user interface for the first type of content (presenting the user interface of content (providing the first user interface for the first type of content), paragraph [0073]); providing the second user interface for the second type of content (presenting the user interface of the new content (providing the second user interface for the second type of content), paragraph [0113]); and providing the third user interface for the third type of content (the presentation model ensures that each item is presented (providing the third user interface for the third type of content), paragraph [0032]).

Claims 2, 17 and 20 lack an inventive step under PCT Article 33(3) as being obvious over Calissendorff in view of US 2011/0252466 A1 to Jeong et al. (hereinafter "Jeong").

As to claim 2, Calissendorff discloses the method as defined in claim 1. However, Calissendorff fails to disclose a method wherein the first type of content is for a selection main screen with a limited amount of content. Jeong discloses a method wherein the first type of content is for a selection main screen with a limited amount of content (the home screen (selection main screen) may further include an application menu with at least one application that can be executed (wherein the first type of content is for a selection main screen with a limited amount of content), paragraph [0145]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Calissendorff to include wherein the first type of content is for a selection main screen with a limited amount of content, as taught by Jeong, for the benefit of presenting a main screen that is simple to navigate.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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Supplemental Box

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As to claim 17, Calissendorff discloses a method comprising: receive a selection for the user interface (the presentation model locates the command associated with the action (receive a selection for the user interface), paragraph [0077]), wherein the user interface provides content (the presentation model uses the available content to generate the interface for the user (wherein the user interface provides content), paragraph [0091]); determine a type of content to provide (content is determined by which available items fulfill the criteria of a presentation group (determine a type of content to provide), paragraph [0047]); determine a type of user interface based on the type of content to provide, wherein a first type of content corresponds to a first user interface (available content with the known context is used to generate the user interface (determine a type of user interface based on the type of content to provide, wherein the first type of content corresponds to a first user interface), paragraph [0072]), a second type of content corresponds to a second user interface (when a change in context is detected, the available content is used to generate a new user interface (a second type of content corresponds to a second user interface), paragraphs [0110], [0112]), and a third type of content corresponds to a third user interface (when the user moves into a different context B or C, the interface will update to the new context (and a third type of content corresponds to a third user interface), figures 5a-5d, paragraph [0058]); provide the first user interface for the first type of content (presenting the user interface of content (provide the first user interface for the first type of content), paragraph [0073]); provide the second user interface for the second type of content (presenting the user interface of the new content (provide the second user interface for the second type of content), paragraph [0113]); provide the third user interface for the third type of content (the presentation model ensures that each item is presented (provide the third user interface for the third type of content), paragraph [0032]). However, Calissendorff fails to disclose a method comprising: computer readable medium having stored thereon processor executable instructions that cause a computing system to execute a method, the instructions comprising: instructions to. Jeong discloses a method comprising: computer readable medium having stored thereon processor executable instructions that cause a computing system to execute a method, the instructions comprising: instructions to (a non-transitory computer readable medium including instructions configured to perform the display method (computer readable medium having stored thereon processor executable instructions that cause a computing system to execute a method, the instructions comprising: instructions to), claim 20). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Calissendorff to include computer readable medium having stored thereon processor executable instructions that cause a computing system to execute a method, the instructions comprising: instructions to, as taught by Jeong, for the benefit of executing instructions to perform the method.

As to claim 20, Calissendorff and Jeong disclose the computer readable medium as defined in claim 17. Calissendorff further discloses the computer readable medium wherein the third type of content is for a collection of content, and wherein the third user interface is for a linear view (the presentation group (wherein the third type of content is for a collection of content) is in a linear view (wherein the third user interface is for a linear view), figure 3d).

Claims 12 and 16 lack an inventive step under PCT Article 33(3) as being obvious over Calissendorff in view of US 2010/0241962 A1 to Peterson et al. (hereinafter "Peterson").

As to claim 12, Calissendorff discloses an intelligent television system comprising (smart TV controller (intelligent television system), paragraph [0114]): execute a statistics subservice (the presentation model includes services to present content to users based on user preferences (execute a statistics subservice), paragraph [0033]); execute an user interface application (dynamically adapt a user interface to the available context (execute an user interface application), paragraph [0120]): receive a selection for the user interface (the presentation model locates the command associated with the action (receive a selection for the user interface), paragraph [0077]), wherein the user interface provides content (the presentation model uses the available content to generate the interface for the user (wherein the user interface provides content), paragraph [0091]); determine a type of content to provide (content is determined by which available items fulfill the criteria of a presentation group (determine a type of content to provide), paragraph [0047]); determine a type of user interface based on the type of content to provide, wherein a first type of content corresponds to a first user interface (available content with the known context is used to generate the user interface (determine a type of user interface based on the type of content to provide, wherein the first type of content corresponds to a first user interface), paragraph [0072]), a second type of content corresponds to a second user interface (when a change in context is detected, the available content is used to generate a new user interface (a second type of content corresponds to a second user interface), paragraphs [0110], [0112]), and a third type of content corresponds to a third user interface (when the user moves into a different context B or C, the interface will update to the new context (and a third type of content corresponds to a third user interface), figures 5a-5d, paragraph [0058]); provide the first user interface for the first type of content (presenting the user interface of content (provide the first user interface for the first type of content), paragraph [0073]); provide the second user interface for the second type of content (presenting the user interface of the new content (provide the second user interface for the second type of content), paragraph [0113]); and provide the third user interface for the third type of content (the presentation model ensures that each item is presented (provide the third user interface for the third type of content), paragraph [0032]). However, Calissendorff fails to disclose a system comprising: a memory operable to store social media data; a processor in communication with the memory, the processor operable to execute a statistics subservice operable to: execute an user interface application operable to. Peterson discloses a system comprising: a memory operable to store social media data (memory can store supplemental content such as social network data (a memory operable to store social media data), paragraphs [0037], [0039]); a processor in communication with the memory, the processor operable to: execute an user interface application operable to (one or more processors with a memory element (a processor in communication with the memory), the processor executes the media delivery system (execute an user interface application operable to), figure 7, paragraph [0060]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the system of Calissendorff to include a memory operable to store social media data; a processor in communication with the memory, the processor operable to execute a statistics subservice operable to: execute an user interface application operable to, as taught by Peterson, for the benefit of using stored social media data to perform metrics for organizing content display.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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Supplemental Box

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As to claim 16, Calissendorff and Peterson disclose the intelligent television system as defined in claim 12. Calissendorff further discloses a system wherein the third type of content is for a collection of content, and wherein the third user interface is for a linear view (the presentation group (wherein the third type of content is for a collection of content) is in a linear view (wherein the third user interface is for a linear view), figure 3d).

Claims 3-5 and 18 lack an inventive step under PCT Article 33(3) as being obvious over Calissendorff in view of Jeong, and further in view of US 2010/0241962 A1 to Peterson et al. (hereinafter "Peterson").

As to claim 3, Calissendorff and Jeong disclose the method as defined in claim 2. However, Calissendorff fails to disclose a method wherein the first user interface is for at least one of a grid view, a Fibonacci view, and a cluster view. Peterson discloses a method wherein the first user interface is for at least one of a grid view, a Fibonacci view, and a cluster view (the means of displaying can be presented as a Fibonacci spiral (wherein the first user interface is a Fibonacci view), paragraph [0043]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Calissendorff to include wherein the first user interface is for at least one of a grid view, a Fibonacci view, and a cluster view, as taught by Peterson, for the benefit of presenting a Fibonacci view giving the user more selectable options.

As to claim 4, the combination of Calissendorff, Jeong, and Peterson disclose the method as defined in claim 3. However, Calissendorff fails to disclose a method wherein the Fibonacci view provides selectable content thumbnails arranged in a Fibonacci spiral. Peterson discloses a method wherein the Fibonacci view provides selectable content thumbnails arranged in a Fibonacci spiral (content thumbnails can be presented in a Fibonacci spiral (the Fibonacci view provides selectable content thumbnails arranged in a Fibonacci spiral), paragraph [0011]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Calissendorff to include wherein the Fibonacci view provides selectable content thumbnails arranged in a Fibonacci spiral, as taught by Peterson, for the benefit of presenting a Fibonacci view giving the user more selectable options.

As to claim 5, the combination of Calissendorff, Jeong, and Peterson disclose the method as defined in claim 4. However, Calissendorff fails to disclose a method wherein the thumbnails are arranged in the Fibonacci spiral based on a characteristic of the content associated with the thumbnail, and wherein the characteristic is one or more of an amount of content, a most viewed statistic, a newest statistic, or a most favorite statistic. Peterson discloses a method wherein the thumbnails are arranged in a Fibonacci spiral (thumbnails can be presented in a Fibonacci spiral (wherein thumbnails are arranged in a Fibonacci spiral), paragraph [0011]). Further, Jeong discloses a method wherein the arrangement is based on a characteristic of the content associated with the thumbnail (the application menu of thumbnails may be arranged based on characteristics (wherein the arrangement is based on a characteristic of the content associated with the thumbnail), paragraphs [0163], [0444]), and wherein the characteristic is a most favorite statistic (thumbnails may be arranged by applications most frequently used by the user (wherein the characteristic is a most favorite statistic), paragraph [0444]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Calissendorff to include wherein the thumbnails are arranged in a Fibonacci spiral, as taught by Peterson, for the benefit of giving the user more selectable options. Further, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Calissendorff to include wherein the characteristic is a most favorite statistic, as taught by Jeong, for the benefit of presenting thumbnails in a preferred order.

As to claim 18, Calissendorff and Jeong disclose the computer readable medium as defined in claim 17. However, Calissendorff fails to disclose a computer readable medium wherein first type of content is for a selection main screen with a limited amount of content, and wherein the first user interface is for at least one of a grid view, a Fibonacci view, and a cluster view. Jeong discloses a computer readable medium wherein first type of content is for a selection main screen with a limited amount of content (the home screen (selection main screen) may further include an application menu with at least one application that can be executed (wherein the first type of content is for a selection main screen with a limited amount of content), paragraph [0145]). Further, Peterson discloses a computer readable medium wherein the first user interface is for at least one of a grid view, a Fibonacci view, and a cluster view (the means of displaying can be presented as a Fibonacci spiral (wherein the first user interface is a Fibonacci view), paragraph [0043]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the system of Calissendorff to include wherein first type of content is for a selection main screen with a limited amount of content, as taught by Jeong, for the benefit of presenting a main screen that is simple for the user to navigate. Further, It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the system of Calissendorff to include wherein the first user interface is for at least one of a grid view, a Fibonacci view, and a cluster view, as taught by Peterson, for the benefit of using a Fibonacci view to present more selectable options to the user.

Claims 6-11 lack an inventive step under PCT Article 33(3) as being obvious over Calissendorff in view of US 2005/0091596 A1 to Anthony et al. (hereinafter "Anthony").

As to claim 6, Calissendorff discloses the method as defined in claim 1. However, Calissendorff fails to disclose a method wherein the second type of content is for content associated with time. Anthony discloses a method wherein the second type of content is for content associated with time (the area displayed to the user is enough in detail for the user to discern the timeline content (wherein the second type of content is for content associated with time), paragraph [0063]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Calissendorff to include wherein the second type of content is for content associated with time, as taught by Anthony, for the benefit of using a time parameter for organizing content.

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As to claim 7, Calissendorff and Anthony disclose the method as defined in claim 6. However, Calissendorff fails to disclose a method wherein the second user interface is a timeline view. Anthony discloses a method wherein the second user interface is a timeline view (a dynamic timeline view allows a user to view a set of items arranged chronologically (is a timeline view) and presented in a GUI environment (wherein the second user interface), paragraph [0043]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Calissendorff to include wherein the second user interface is a timeline view, as taught by Anthony, for the benefit of presenting the content in a timeline view to a user.

As to claim 8, Calissendorff and Anthony disclose the method as defined in claim 7. However, Calissendorff fails to disclose a method wherein the timeline view provides selectable content thumbnails arranged in timeline from oldest content at a first side of the timeline view to newest content at a second side of the timeline view. Anthony discloses a method wherein the timeline view provides selectable content thumbnails arranged in timeline from oldest content at a first side of the timeline view to newest content at a second side of the timeline view (the timeline view provides thumbnail icons that will open when the user double clicks (wherein the timeline view provides selectable content thumbnails) arranged in a chronological manner (arranged in timeline from oldest content at a first side of the timeline view to newest content at a second side of the timeline view), paragraphs [0044], [0046], [0047]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Calissendorff to include wherein the timeline view provides selectable content thumbnails arranged in timeline from oldest content at a first side of the timeline view to newest content at a second side of the timeline view, as taught by Anthony, for the benefit of presenting a chronological view of content to a user.

As to claim 9, Calissendorff and Anthony disclose the method as defined in claim 8. However, Calissendorff fails to disclose a method wherein the timeline view includes a demarcation to indicate a change in date to which the content is associated. Anthony discloses a method wherein the timeline view includes a demarcation to indicate a change in date to which the content is associated (items may be grouped in chronological order (the timeline view includes a demarcation) in a logical timeline that may include various time intervals (to indicated a change in date to which the content is associated), paragraph [0042]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Calissendorff to include wherein the timeline view includes a demarcation to indicate a change in date to which the content is associated, as taught by Anthony, for the benefit of showing a user interface that clearly indicates a date change of a timeline view.

As to claim 10, Calissendorff discloses the method as defined in claim 1. However, Calissendorff fails to disclose a method wherein the third type of content is for a collection of content. Anthony discloses a method wherein the third type of content is for a collection of content (items may be stored in logical groupings such as virtual folders or stacks (wherein the third type of content is for a collection of content), paragraph [0047]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Calissendorff to include wherein the third type of content is for a collection of content, as taught by Anthony, for the benefit of grouping content for easier viewing for the user.

As to claim 11, Calissendorff and Anthony disclose the method as defined in claim 10. Calisendorff further discloses a method wherein the third user interface is for a linear view (the presentation group is in a linear view (wherein the third user interface is for a linear view), figure 3d). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the method of Calissendorff to include wherein the third user interface is for a linear view, as taught by Anthony, for the benefit of presenting a linear view in a user interface.

Claims 13-14 lack an inventive step under PCT Article 33(3) as being obvious over Calissendorff in view of Peterson, and further in view of Jeong.

As to claim 13, Calissendorff and Peterson disclose the intelligent television system as defined in claim 12. However, Calissendorff fails to disclose a system wherein first type of content is for a selection main screen with a limited amount of content, and wherein the first user interface is for at least one of a grid view, a Fibonacci view, and a cluster view. Jeong discloses a system wherein first type of content is for a selection main screen with a limited amount of content (the home screen (selection main screen) may further include an application menu with at least one application that can be executed (wherein the first type of content is for a selection main screen with a limited amount of content), paragraph [0145]). Further, Peterson discloses a system wherein the first user interface is for at least one of a grid view, a Fibonacci view, and a cluster view (the means of displaying can be presented as a Fibonacci spiral (wherein the first user interface is a Fibonacci view), paragraph [0043]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the system of Calissendorff to include wherein first type of content is for a selection main screen with a limited amount of content, as taught by Jeong, for the benefit of presenting a main screen that is simple for the user to navigate. Further, It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the system of Calissendorff to include wherein the first user interface is for at least one of a grid view, a Fibonacci view, and a cluster view, as taught by Peterson, for the benefit of using a Fibonacci view to present more selectable options to the user.

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As to claim 14, the combination of Calissendorff, Jeong, and Peterson disclose the intelligent television system as defined in claim 13. However, Calissendorff fails to disclose a system wherein the first user interface is a Fibonacci view, wherein the Fibonacci view provides selectable content thumbnails arranged in a Fibonacci spiral, wherein the thumbnails are arranged in the Fibonacci spiral based on a characteristic of the content associated with the thumbnail, and wherein the characteristic is one or more of an amount of content, a most viewed statistic, a newest statistic, or a most favorite statistic. Peterson discloses a system wherein the first user interface is a Fibonacci view (content can be presented in a Fibonacci spiral (wherein the first user interface is a Fibonacci view), paragraph [0011]), wherein the Fibonacci view provides selectable content thumbnails arranged in a Fibonacci spiral (content (thumbnails can be presented in a Fibonacci spiral (the Fibonacci view provides selectable content thumbnails arranged in a Fibonacci spiral), paragraph [0011]), wherein the thumbnails are arranged in the Fibonacci spiral (thumbnails can be presented in a Fibonacci spiral (wherein the thumbnails are arranged in a Fibonacci spiral), paragraph [0011]). Further, Jeong discloses a system wherein the arrangement is based on a characteristic of the content associated with the thumbnail (the application menu of thumbnails may be arranged based on characteristics (wherein the arrangement is based on a characteristic of the content associated with the thumbnail (paragraphs [0163], [0444]), and wherein the characteristic is a most favorite statistic (thumbnails may be arranged by applications most frequently used by the user (wherein the characteristic is a most favorite statistic), paragraph [0444]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the system of Calissendorff to include wherein the first user interface is a Fibonacci view, wherein the Fibonacci view provides selectable content thumbnails arranged in a Fibonacci spiral, wherein the thumbnails are arranged in the Fibonacci spiral, as taught by Peterson, for the benefit of presenting thumbnails using a Fibonacci spiral to the user. Further, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the system of Calissendorff to include system wherein the arrangement is based on a characteristic of the content associated with the thumbnail, and wherein the characteristic is a most favorite statistic as taught by Jeong, for the benefit of presenting thumbnails to a user based on favorites.

Claim 15 lacks an inventive step under PCT Article 33(3) as being obvious over Calissendorff in view of Peterson, and further in view of Anthony.

As to claim 15, Calissendorff and Peterson disclose the intelligent television system as defined in claim 12. However, Calissendorff fails to disclose a system wherein the second type of content is for content associated with time, wherein the second user interface is a timeline view, wherein the timeline view provides selectable content thumbnails arranged in timeline from oldest content at a first side of the timeline view to newest content at a second side of the timeline view, and wherein the timeline view includes a demarcation to indicate a change in date to which the content is associated. Anthony discloses a system wherein the second type of content is for content associated with time (the area displayed to the user is enough in detail for the user to discern the timeline content (wherein the second type of content is for content associated with time), paragraph [0063]), wherein the second user interface is a timeline view (a dynamic timeline view allows a user to view a set of items arranged chronologically (is a timeline view) and presented in a GUI environment (wherein the second user interface), paragraph [0043]), wherein the timeline view provides selectable content thumbnails arranged in timeline from oldest content at a first side of the timeline view to newest content at a second side of the timeline view (the timeline view provides thumbnail icons that will open when the user double clicks (wherein the timeline view provides selectable content thumbnails) arranged in a chronological manner (arranged in timeline from oldest content at a first side of the timeline view to newest content at a second side of the timeline view), paragraphs [0044], [0046], [0047]), and wherein the timeline view includes a demarcation to indicate a change in date to which the content is associated (items may be grouped in chronological order (the timeline view includes a demarcation) in a logical timeline that may include various time intervals (to indicated a change in date to which the content is associated), paragraph [0042]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the system of Calisssendorff to include wherein the second type of content is for content associated with time, wherein the second user interface is a timeline view, wherein the timeline view provides selectable content thumbnails arranged in timeline from oldest content at a first side of the timeline view to newest content at a second side of the timeline view, and wherein the timeline view includes a demarcation to indicate a change in date to which the content is associated, as taught by Anthony, for the benefit of organizing the display of content in a timeline view.

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Claim 19 lacks an inventive step under PCT Article 33(3) as being obvious over Calissendorff in view of Jeong, and further in view of Anthony.

As to claim 19, Calissendorff and Jeong disclose the computer readable medium as defined in claim 17. However, Calissendorff fails to disclose the computer readable medium wherein the second type of content is for content associated with time, wherein the second user interface is a timeline view, wherein the timeline view provides selectable content thumbnails arranged in timeline from oldest content at a first side of the timeline view to newest content at a second side of the timeline view, and wherein the timeline view includes a demarcation to indicate a change in date to which the content is associated. Anthony discloses a computer readable medium (computer readable medium, claim 21) wherein the second type of content is for content associated with time (the area displayed to the user is enough in detail for the user to discern the timeline content (wherein the second type of content is for content associated with time), paragraph [0063]), wherein the second user interface is a timeline view (a dynamic timeline view allows a user to view a set of items arranged chronologically (is a timeline view) and presented in a GUI environment (wherein the second user interface), paragraph [0043]), wherein the timeline view provides selectable content thumbnails arranged in timeline from oldest content at a first side of the timeline view to newest content at a second side of the timeline view the timeline view provides thumbnail icons that will open when the user double clicks (wherein the timeline view provides selectable content thumbnails) arranged in a chronological manner (arranged in timeline from oldest content at a first side of the timeline view to newest content at a second side of the timeline view), paragraphs [0044], [0046], [0047]), and wherein the timeline view includes a demarcation to indicate a change in date to which the content is associated (items may be grouped in chronological order (the timeline view includes a demarcation) in a logical timeline that may include various time intervals (to indicated a change in date to which the content is associated), paragraph [0042]). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the computer readable medium of Calissendorff to include wherein the second type of content is for content associated with time, wherein the second user interface is a timeline view, wherein the timeline view provides selectable content thumbnails arranged in timeline from oldest content at a first side of the timeline view to newest content at a second side of the timeline view, and wherein the timeline view includes a demarcation to indicate a change in date to which the content is associated, as taught by Anthony, for the benefit of performing the timeline view operations using computer readable medium.

Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

REINHARDT, Dean, N.
SHERIDAN ROSS P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)*	
26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-469-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/036819	16 April 2013 (16.04.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Philippe Bécamel

e-mail: pt03.pct@wipo.int

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-469-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/036819	International filing date *(day/month/year)* 16 April 2013 (16.04.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Philippe Bécamel e-mail: pt03.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: DEAN N. REINHARDT
SHERIDAN ROSS P.C.
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	17 JUN 2013

Applicant's or agent's file reference	FOR FURTHER ACTION
6583-469-PCT	See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/036819	16 April 2013	14 June 2012

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04H 60/29 (2013.01)
USPC - 725/14

Applicant FLEXTRONICS AP, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	04 June 2013	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036819

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036819

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-17	YES
	Claims	18-20	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO

2. Citations and explanations:

Claims 18-20 lack novelty under PCT Article 33(2) as being anticipated by Peterson.

Regarding claim 18, Peterson teaches a method (systems and methods for simplifying text entry, [abstract]), comprising: sending by a user a command to a television to active an on screen channel changer (media guidance application which includes an interactive television program guide sometimes referred to as an electronic program guide which allows users to navigate among television programming, [0027]; media guidance application may be organized by time and channel in a grid, [0029]; a user may indicate a desire to access media information by selecting a selectable option provided in a display screen or pressing a dedicated GUIDE button on a remote control or other user input interface device, [0029]); navigating focus by the user to a show name in a list of one or more program listings displayed by the on screen channel changer (as the user is searching for a program title, all valid program titles currently accessible by the user may be indexed in a table and as the user inputs characters of the program title, candidate resultant strings that do not match the user's input may be removed or pruned from the list or tree, [0010]; [figure 9 shows the candidate strings and figure 12 shows that the list of candidate strings is displayed 1212 to the user and the user may select one of the candidates in the list 1222]); and selecting by the user the show name that has focus (user can select program listings by moving highlight region 110, [0030]; fig.1).

Regarding claim 19, Peterson teaches the step of: selecting by the user one or more number buttons on a number (alphanumeric [letters and numbers] navigation and input, [0008]) entry bar (although visual keypad 500 is shown as a rectangular grid, the shape, size and letter layout of the visual keypads described herein may differ and may be square or a single row [bar] or column of lettered buttons, [0066]; fig.5A) of the on screen channel changer to determine the list that is displayed (as the user is searching for a program title, all valid program titles currently accessible by the user may be indexed in a table and as the user inputs characters of the program title, candidate resultant strings that do not match the user's input may be removed or pruned from the list or tree, [0010]; [figure 9 shows the candidate strings and figure 12 shows that the list of candidate strings is displayed 1212 to the user and the user may select one of the candidates in the list 1222]).

Regarding claim 20, Peterson teaches the list is comprised of one or more previously viewed channel numbers ([figure 12 shows that the user's profile may determine which candidate strings to display 1220]; media guidance application may monitor user activity to determine various user preferences in order to create a personalized guidance application showing favorite [previously viewed] channel selections, [0037]).

Claims 1-17 lack an inventive step under PCT Article 33(3) as being obvious over Peterson in view of Ahida.

Regarding claim 1, Peterson teaches a non-transitory computer readable storage medium having stored thereon instructions that cause a processor to execute a method (control circuitry executes instructions for a media guidance application stored in memory, [0042]) for changing a channel number on a television (media guidance application which includes an interactive television program guide sometimes referred to as an electronic program guide which allows users to navigate among television programming, [0027]; media guidance application may be organized by time and channel in a grid, [0029]), the method comprising the steps of: receiving a command from a user to activate an on screen channel changer on the television (a user may indicate a desire to access media information by selecting a selectable option provided in a display screen or pressing a dedicated GUIDE button on a remote control or other user input interface device, [0029]); rendering the on screen channel changer on a screen of the television upon receiving the command from the user (in response to the user's indication, the media guidance application provides a display screen with media information organized by time and channel in a grid, [0029]); receiving a selection wherein the user makes the selection using the on screen channel changer (user can select program listings by moving highlight region 110, [0030]; fig.1); and presenting content associated with the selection on the screen upon receiving the selection (information relating to the program listing selected by highlight region 110 may be provided in program information region 112 wherein region 112 may include the program title, description, time, channel, rating, and other desired information, [0030]; fig.1), but does not disclose the selection is a channel number selection. However, Peterson does teach channel selection ([0027]; [0029]) and further teaches a numeric keypad (alphanumeric [letters and numbers] navigation and input, [0008]). Furthermore it is well known in the art of television to allow a user to input a channel selection number corresponding to a broadcast channel desired (see Ahida, [abstract]; [col.1 ln.5-10]; [col.2 ln.35-50]). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide channel number selection capabilities as taught by Ahida using the numeric keypad of Peterson in order to allow a user to quickly select broadcast channels with minimum operations required to reduce burden on the user (Ahida, [col.2 ln.26-34]).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2013/036819

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**

Continuation of:

Regarding claim 10, Peterson teaches a television system (media guidance application which includes an interactive television program guide sometimes referred to as an electronic program guide which allows users to navigate among television programming, [0027]; media guidance application may be organized by time and channel in a grid, [0029]), comprising: a memory (memory, [0042]); a screen (on-screen keypad, [0008]); a user input device (a user may indicate a desire to access media information by selecting a selectable option provided in a display screen or pressing a dedicated GUIDE button on a remote control or other user input interface device, [0029]); a processor in communication with the memory and the screen (control circuitry executes instructions for a media guidance application stored in memory, [0042]), the processor operable to: receive a command from a user to change a channel number on the television (a user may indicate a desire to access media information by selecting a selectable option provided in a display screen or pressing a dedicated GUIDE button on a remote control or other user input interface device, [0029]); render an on screen channel changer on the screen upon receiving the command from the user (in response to the user's indication, the media guidance application provides a display screen with media information organized by time and channel in a grid, [0029]); receive a selection when the user makes the selection using the on screen channel changer (user can select program listings by moving highlight region 110, [0030]; fig.1); and present content associated with the selection on the screen upon receiving the selection (information relating to the program listing selected by highlight region 110 may be provided in program information region 112 wherein region 112 may include the program title, description, time, channel, rating, and other desired information, [0030]; fig.1), but does not disclose the selection is a channel number selection. However, Peterson does teach channel selection ([0027]; [0029]) and further teaches a numeric keypad (alphanumeric [letters and numbers] navigation and input, [0008]). Furthermore it is well known in the art of television to allow a user to input a channel selection number corresponding to a broadcast channel desired (see Ahida, [abstract]; [col.1 ln.5-10]; [col.2 ln.35-50]). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide channel number selection capabilities as taught by Ahida using the numeric keypad of Peterson in order to allow a user to quickly select broadcast channels with minimum operations required to reduce burden on the user (Ahida, [col.2 ln.26-34]).

Regarding claim 2, Peterson teaches the on screen channel changer includes a number entry bar with number buttons (alphanumeric [letters and numbers] navigation and input, [0008]; although visual keypad 500 is shown as a rectangular grid, the shape, size and letter layout of the visual keypads described herein may differ and may be square or a single row [bar] or column of lettered buttons, [0066]; fig.5A).

Regarding claim 3, modified Peterson teaches the selection is a channel number selection, per above discussion, and Peterson further teaches only number buttons that produce selectable selections are enabled on the number entry bar (characters that cannot possibly be the next user input selection may be grayed out or disabled in the visual keypad and in some embodiments, the grayed out or disabled keys are actually removed from the visual keypad display, [0013]).

Regarding claim 4, modified Peterson teaches the selection is a channel number selection, per above discussion, and Peterson further teaches the steps of: receiving one or more selections by the user (alphanumeric [letters and numbers] navigation and input, [0008]) from the number entry bar (although visual keypad 500 is shown as a rectangular grid, the shape, size and letter layout of the visual keypads described herein may differ and may be square or a single row [bar] or column of lettered buttons, [0066]; fig.5A); and rendering a dynamic electronic program guide in the on screen channel changer upon receiving a first of the one or more selections (as the user is searching for a program title, all valid program titles currently accessible by the user may be indexed in a table and as the user inputs characters of the program title, candidate resultant strings that do not match the user's input may be removed or pruned from the list or tree, [0010]; [figure 9 shows the candidate strings and figure 12 shows that the list of candidate strings is displayed 1212 to the user and the user may select one of the candidates in the list 1222]), wherein: the dynamic electronic program guide displays a first list, the first list is comprised of program listings for a plurality of selectable content (media guidance application may be organized by time and channel in a grid, [0029]), and the plurality of selectable content are selectable content with a first number equal to the first of the one or more selections (after a user selects a character within the keypad for input, buttons corresponding to letters [since the keypad is alphanumeric, the character could be a number] that cannot possible be the next character in the user input string may be disabled wherein valid candidate strings are based on the program schedule database, [0081]; fig.9).

Regarding claim 5, modified Peterson teaches the selection is a channel number selection, per above discussion, and Peterson further teaches the steps of: receiving a second of the one or more selections (keypad is redisplayed with a greater or fewer number of buttons after each character input, [0082]; fig.9), wherein the dynamic electronic program guide replaces the first list with a second list (as the user is searching for a program title, all valid program titles currently accessible by the user may be indexed in a table and as the user inputs characters of the program title, candidate resultant strings that do not match the user's input may be removed or pruned from the list or tree, [0010]; [figure 9 shows the candidate strings and figure 12 shows that the list of candidate strings is displayed 1212 to the user and the user may select one of the candidates in the list 1222]); wherein the second list is comprised of program listings for a plurality of selectable content (valid program titles currently accessible by the user, [0010]); and wherein the plurality of selectable content are selectable content with a first number equal to the first of the one or more selections and a second number equal to the second of the one or more selections (as the user inputs characters of the program title, candidate resultant strings that do not match the user's input may be removed or pruned from the list or tree, [0010]; figure 9]).

Regarding claim 6, Peterson teaches the steps of: receiving one or more focus decisions from the user (user can select program listings by moving highlight region 110, [0030]; fig.1); and rendering a program preview in the on screen channel changer when a show name has focus, wherein the program preview provides program information for the show that has focus (information relating to the program listing selected by highlight region 110 may be provided in program information region 112 wherein region 112 may include the program title, description, time, channel, rating, and other desired information, [0030]; fig.1).

Regarding claim 7, Peterson teaches the on screen channel changer includes a mini electronic program guide (media guidance displays may be fully or partially overlaid over media content being displayed, [0029]), wherein the mini electronic program guide displays program listings for one or more previously viewed channel numbers (media guidance application may monitor user activity to determine various user preferences in order to create a personalized guidance application showing favorite [previously viewed] channel selections, [0037]).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036819

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claim 8, Peterson teaches only one number button (alphanumeric [letters and numbers] navigation and input, [0008]) may be selected by the user at a time ([see figure 9]).

Regarding claim 9, modified Peterson teaches the selection is a channel number selection, per above discussion, and Peterson further teaches the steps of: rendering in the on screen channel changer (in response to the user's indication, the media guidance application provides a display screen with media information organized by time and channel in a grid, [0029]) a dynamic electronic program guide when the user selects one or more of the number buttons (after a user selects a character within the keypad for input, buttons corresponding to letters [since the keypad is alphanumeric, the character could be a number] that cannot possible be the next character in the user input string may be disabled wherein valid candidate strings are based on the program schedule database, [0081]; fig.9; as the user is searching for a program title, all valid program titles currently accessible by the user may be indexed in a table and as the user inputs characters of the program title, candidate resultant strings that do not match the user's input may be removed or pruned from the list or tree, [0010]; [figure 9 shows the candidate strings and figure 12 shows that the list of candidate strings is displayed 1212 to the user and the user may select one of the candidates in the list 1222]); displaying, by the dynamic electronic program guide, program listings for one or more channel numbers in response to the user selecting a first of the one or more number buttons; and changing the program listings in response to the user selecting a next of the one or more number buttons, where the one or more selectable selections are comprised of numbers represented by the one or more number buttons selected by the user (as the user is searching for a program title, all valid program titles currently accessible by the user may be indexed in a table and as the user inputs characters of the program title [each time a user enters a character, the guide is updated], candidate resultant strings that do not match the user's input may be removed or pruned from the list or tree, [0010]; [figure 9 shows the candidate strings and figure 12 shows that the list of candidate strings is displayed 1212 to the user and the user may select one of the candidates in the list 1222]).

Regarding claim 11, Peterson teaches the on screen channel changer includes a number (alphanumeric [letters and numbers] navigation and input, [0008]) entry bar (although visual keypad 500 is shown as a rectangular grid, the shape, size and letter layout of the visual keypads described herein may differ and may be square or a single row [bar] or column of lettered buttons, [0066]; fig.5A).

Regarding claim 12, modified Peterson teaches the selection is a channel number selection, per above discussion, and Peterson further teaches receiving one or more selections by the user (user input, [0010]) from the number entry bar (although visual keypad 500 is shown as a rectangular grid, the shape, size and letter layout of the visual keypads described herein may differ and may be square or a single row [bar] or column of lettered buttons, [0066]; fig.5A); and rendering a dynamic electronic program guide (in response to the user's indication, the media guidance application provides a display screen with media information organized by time and channel in a grid, [0029]) in the on screen channel changer upon receiving a first selection (after a user selects a character within the keypad for input, buttons corresponding to letters [since the keypad is alphanumeric, the character could be a number] that cannot possible be the next character in the user input string may be disabled wherein valid candidate strings are based on the program schedule database, [0081]; fig.9; as the user is searching for a program title, all valid program titles currently accessible by the user may be indexed in a table and as the user inputs characters of the program title, candidate resultant strings that do not match the user's input may be removed or pruned from the list or tree, [0010]; [figure 9 shows the candidate strings and figure 12 shows that the list of candidate strings is displayed 1212 to the user and the user may select one of the candidates in the list 1222]), the dynamic electronic program guide displaying lists of program listings for one or more channel numbers (valid program titles, [0010]; guidance application may be organized by time and channel in a grid, [0029]), wherein: a first list is comprised of one or more selectable content with a first number beginning with the first selection ([see figure 9 wherein the alphanumeric keypad may accept numeric input instead of alphabetic input]); a second list is comprised of one or more channels selectable content with the first number beginning with the first selection and a second number beginning with a second selection; and a third list is comprised of one or more selectable content with the first number beginning with the first selection, the second channel number beginning with the second selection, and a third number beginning with a third selection (as the user is searching for a program title, all valid program titles currently accessible by the user may be indexed in a table and as the user inputs characters of the program title [each time a user enters a character, the guide is updated], candidate resultant strings that do not match the user's input may be removed or pruned from the list or tree, [0010]; [figure 9 shows the candidate strings and figure 12 shows that the list of candidate strings is displayed 1212 to the user and the user may select one of the candidates in the list 1222]).

Regarding claim 13, Peterson does not explicitly teach the one or more channel numbers includes eleven channel numbers. However, Ahida teaches 10 channel numbers ([see figure 1]). Furthermore, it is known in the art of on screen interfaces to include additional buttons for ease of user navigation. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide channel numbers as taught by Ahida including a total of eleven channel numbers in the invention of modified Peterson since the provision of adjustability, where needed, involves only routine skill in the art, and such a modification would allow a user to customize their interface with commonly used channel numbers.

Regarding claim 14, Peterson teaches the processor is further operable to: receive one or more selections by the user (user input, [0010]) from the number entry bar (although visual keypad 500 is shown as a rectangular grid, the shape, size and letter layout of the visual keypads described herein may differ and may be square or a single row [bar] or column of lettered buttons, [0066]; fig.5A); render a dynamic electronic program guide in the on screen channel changer upon receiving a first selection, the dynamic electronic program guide displaying a list of program listings for at least four channel numbers, the program listings including one or more show names (as the user is searching for a program title, all valid program titles currently accessible by the user may be indexed in a table and as the user inputs characters of the program title, candidate resultant strings that do not match the user's input may be removed or pruned from the list or tree, [0010]; [figure 9 shows the candidate strings and figure 12 shows that the list of candidate strings is displayed 1212 to the user and the user may select one of the candidates in the list 1222]); receive one or more focus decisions by the user (user can select program listings by moving highlight region 110, [0030]; fig.1); and render a program preview in the on screen channel changer when a show name has focus, wherein the program preview comprises at least one of: a show name; an episode number; an episode name; a start time; an end time; and a description of the show (information relating to the program listing selected by highlight region 110 may be provided in program information region 112 wherein region 112 may include the program title, description, time, channel, rating, and other desired information, [0030]; fig.1).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036819

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claim 15, Peterson teaches the program preview includes a thumbnail image (display may include a video region that allows a user to preview programs wherein the content of the video region corresponds to one of the listings displayed in the grid, [0033]).

Regarding claim 16, Peterson teaches the on screen channel changer includes a mini electronic program guide (media guidance displays may be fully or partially overlaid over media content being displayed, [0029]); and the mini electronic program guide displays program listings for one or more previously viewed channels (media guidance application may monitor user activity to determine various user preferences in order to create a personalized guidance application showing favorite [previously viewed] channel selections, [0037]).

Regarding claim 17, Peterson teaches the user input device comprises at least one of a remote control (a user may indicate a desire to access media information by selecting a selectable option provided in a display screen or pressing a dedicated GUIDE button on a remote control or other user input interface device, [0029]), a voice capture device, a gesture capture device, a touch screen, or a smart device.

Claims 1-20 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

GROVER, Douglas, M.
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-470-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/036782	16 April 2013 (16.04.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Philippe Bécamel

e-mail: pt03.pct@wipo.int

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-470-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/036782	International filing date *(day/month/year)* 16 April 2013 (16.04.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Philippe Bécamel e-mail: pt03.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: DOUGLAS M. GROVER
SHERIDAN ROSS P.C.
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	28 JUN 2013

Applicant's or agent's file reference	FOR FURTHER ACTION
6583-470-PCT	See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/036782	16 April 2013	14 June 2012

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/00 (2013.01)
USPC - 725/46

Applicant FLEXTRONICS AP, LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	31 May 2013	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036782

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036782

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-20	YES
	Claims	None	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-3, 5, 7, 11-13, 15,17, and 20 lack an inventive step under PCT Article 33(3) as being obvious over Bangalore et al, hereinafter Bangalore in view of Thomas et al, hereinafter Thomas.

Regarding Claims 1, Bangalore teaches a method for accessing media comprising (paragraph 24 for having an IPTV system to access media and display on the TV device element 124): searching a network to identify a plurality of media sources (paragraph 29 for the IPTV system having a private network element 110, a public network element 112 and a search agent element 210 with paragraph 30 for the search agent element 210 searching video streams sent to the set top box element 116), and having media items associated with the media sources (paragraph 35 for the search agent element 210 finding items associated with a website for purchase and searching other media sources such as social network websites and news websites and outputting the results associated with the keywords); identifying metadata associated with the determined number of media items (paragraph 32 for receiving and analyzing metadata from the video stream and updating the user profile with the metadata and paragraph 37 for analyzing the metadata from the video streams); storing the metadata in a memory (paragraph 32 for storing the metadata to update the user profile and store the metadata in the user profile repository); receiving a request from a user to display one or more of the media items (paragraph 26 for the user requesting video on demand content and accessing the video from a set top box, or over the network on a computer) and displaying the one or more media items based on the stored metadata (page 26 for displaying the video to the user using user interface to access the TV2 server or displaying the media from the computer). Bangalore does not explicitly teach determining a number of media items associated with media sources. Thomas has methods for providing guidance to users for finding media (abstract) and teaches determining a number of media items associated with media sources (paragraph 74 for searching media items based on user's define search strings, and paragraph 77 for having a number of media items associated with groups or sub-groups of media sources based on user preferences). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the number determination as taught by Thomas in the media method of Bangalore in order to configuring a menu screen according to a user's preferences (Thomas, paragraph 77).

Regarding Claims 11, Bangalore discloses a system for accessing media comprising (paragraph 24 for having an IPTV system to access media and display on the TV device element 124): a search engine configured to search a network to identify a plurality of media sources (paragraph 29 for the IPTV system having a private network element 110, a public network element 112 and a search agent element 210 with paragraph 30 for the search agent or search engine means element 210 searching video streams sent to the set top box element 116), and having media items associated with the media sources (paragraph 35 for the search agent element 210 finding items associated with a website for purchase and searching other media sources such as social network websites and news websites and outputting the results associated with the keywords); a media module configured to identify metadata associated with the determined number of media items (paragraph 32 for getting metadata from the video stream and updating the user profile with the metadata and paragraph 37 for analyzing the metadata from the video streams); a memory configured to store the metadata (paragraph 32 for storing the metadata to update the user profile and store the metadata in the user profile repository); a user interface configured to receive a request from a user to display one or more of the media items (paragraph 26 for the user requesting video on demand content and accessing the video from a set top box, or over the network on a computer and the user interface to the TV2 server); and a display configured display the one or more media items based on the stored metadata (paragraph 35 for allowing users to navigate the information and purchase the products or select and offer and allowing the user to access a list of coupons, products or headlines or displayed items and paragraph 32 for displaying user profile or metadata collected from streaming video). Bangalore does not explicitly disclose determining a number of media items associated with media sources. Thomas has methods for providing guidance to users for finding media (abstract) and discloses determining a number of media items associated with media sources (paragraph 74 for searching media items based on user's define search strings, and paragraph 77 for having a number of media items associated with groups or sub-groups of media sources based on user preferences). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the number determination as taught by Thomas in the media system of Bangalore in order to configuring a menu screen according to a user's preferences (Thomas, paragraph 77).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036782

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding Claims 2, Bangalore teaches receiving a search request from the user for an individual media item (paragraph 35 for the search agent element 210 finding items associated with a website for purchase and searching other media sources such as social network websites and news websites and outputting the results associated with the keywords); in response to receiving the search request (paragraph 35 for performing a keyword search for news, social media or e-commerce), identifying multiple media sources in the plurality of media sources that have the individual media item (paragraph 35 for the search agent element 210 finding items associated with a website for purchase and displaying the results via the set top box by identifying the different websites that have the desired item); presenting a list of offers from the multiple media sources to the user for the individual item (paragraph 35 for offering the user advertisements, coupons, price comparisons and news headlines or a list of offers based on the keyword searches); receiving a selection by the user of an individual offer from the list of offers (paragraph 35 for the user having a list of searched offers with, paragraph 26 for the user requesting video on demand content and accessing the video from a set top box, or over the network on a computer); and in response to receiving the selection by the user (paragraph 35 for allowing users to navigate the information and purchase the products or select and offer), providing access to the individual item (paragraph 35 for allowing the user to access a list of coupons, products or headlines by navigating through the offers).

Regarding Claims 12, Bangalore discloses wherein: the search engine is further configured to receive a search request from the user for an individual media item (paragraph 35 for the search agent element 210 finding items associated with a website for purchase and searching other media sources such as social network websites and news websites and outputting the results associated with the keywords) and identify multiple media sources in the plurality of media sources that have the individual media item in response to receiving the search request (paragraph 35 for the search agent element 210 finding items associated with a website for purchase and displaying the results via the set top box by identifying the different websites that have the desired item); the media module is further configured to present a list of offers from the multiple media sources to the user for the individual item (paragraph 35 for offering the user advertisements, coupons, price comparisons and news headlines or a list of offers based on the keyword searches) and provide access to an individual item in response to receiving a selection by the user (paragraph 35 for the user having a list of searched offers with, paragraph 26 for the user requesting video on demand content and accessing the video from a set top box, or over the network on a computer or having access to desired video); and the user interface is further configured to receive the selection by the user of the individual offer from the list of offers (paragraph 35 for allowing the user to access a list of coupons, products or headlines by navigating through the search results and the key words).

Regarding Claims 3 and 13, Bangalore teaches wherein the list of offers comprise is at least one of: an offer to play the individual media item, an offer to view the individual media item, a pay per view offer to view the individual media item, an offer to rent the individual media item, an offer to purchase a ticket to a movie theater showing the individual media item, an offer to purchase the individual media item, a trial access offer to the individual media item, and an offer to access the individual media item on a social media site (paragraph 35 for presenting offers to obtain a coupon, purchase and item, or view headlines via a social media site).

Regarding Claims 5 and 15, Bangalore teaches wherein the plurality of media sources comprises at least two of a video server, an audio server, a Digital Video Recorder (DVR), a set-top box, a social media site, a voice mail server, a source marked by the user, a content provider, a Compact Disk (CD) player, a Digital Video Device (DVD) player, a cellular telephone, a personal digital assistant, a notebook, an audio player, a document server, a Personal Computer (PC), a Really Simple Syndication (RSS) feed, a social media site, a USB device, and a tablet device (paragraph 29 for using a search agent to search can access view streams sent to a set top box, a computer, and a mobile device that may be at another location as shown in figure 2 where the search agent element 210 goes through the network element 112 to search the mobile device element 220 and the computer element 168, see also paragraph 43 for the user network environment using tablets, PDAs and wireless phones on the network as mobile devices).

Regarding Claims 7 and 17, Bangalore teaches the method as shown above. Bangalore does not explicitly teach wherein the displayed one or more media items are organized based at least one of: a media type, a most viewed, a favorites list, a last viewed, a most recently added, a most recently visited, a most recently played, and a most recently purchased. Thomas has methods for providing guidance to users for finding media (abstract) and teaches wherein the displayed one or more media items are organized based at least one of: a media type, a most viewed, a favorites list, a last viewed, a most recently added, a most recently visited, a most recently played, and a most recently purchased (paragraph 75 for having a criteria for selecting media based on favorites list). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the number determination as taught by Thomas in the media method of Bangalore in order to configuring a menu screen according to a user's preferences (Thomas, paragraph 77).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036782

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

Regarding Claims 20, Bangalore discloses a non-transient computer readable medium having stored thereon instructions that cause a processor to execute a method (paragraph 24 for having an IPTV system to access media and display on the TV device element 124 with figure 1 element 104 for an application tier with applications or computer readable programs), the method comprising: instructions to search a network to identify a plurality media sources (paragraph 29 for the IPTV system having a private network element 110, a public network element 112 and a search agent element 210 with paragraph 30 for the search agent or search engine means element 210 searching video streams sent to the set top box element 116); instructions to have media items associated with the media sources (paragraph 35 for the search agent element 210 finding items associated with a website for purchase and searching other media sources such as social network websites and news websites and outputting the results associated with the keywords); instructions to identify metadata associated with the determined number of media items (paragraph 32 for getting metadata from the video stream and updating the user profile with the metadata and paragraph 37 for analyzing the metadata from the video streams); instructions to store the metadata in a memory (paragraph 32 for storing the metadata to update the user profile and store the metadata in the user profile repository); instructions to receive a request from a user to display the one or more media items (paragraph 26 for the user requesting video on demand content and accessing the video from a set top box, or over the network on a computer and the user interface to the TV2 server); and instructions to display the media items based on the stored metadata (paragraph 35 for allowing users to navigate the information and purchase the products or select and offer and allowing the user to access a list of coupons, products or headlines or displayed items and paragraph 32 for displaying user profile or metadata collected from streaming video). Bangalore does not explicitly disclose determining a number of media items associated with media sources. Thomas has methods for providing guidance to users for finding media (abstract) and discloses determining a number of media items associated with media sources (paragraph 74 for searching media items based on user's define search strings, and paragraph 77 for having a number of media items associated with groups or sub-groups of media sources based on user preferences). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the number determination as taught by Thomas in the media system of Bangalore in order to configuring a menu screen according to a user's preferences (Thomas, paragraph 77).

Claims 4, 9, 14, and 19 lack an inventive step under PCT Article 33(3) as being obvious over Bangalore in view of Thomas, and further in view of LaFreniere et al, hereinafter LaFreniere.

Regarding Claims 4 and 14, Bangalore teaches wherein at least one of the displayed one or more media items is a link to a social media site and wherein the link to the social media site (paragraph 35 for using keywords to search a social media site and providing the information to the set top box). Bangalore and Thomas do not explicitly teach comprises at least one of a link to a most recent posting by the user, a link to a most recently accessed social media site, a link to a favorite social media site, a link to a recently added social media site, a link to a last view social media site. LaFreniere has a system and method for updating viewing status between a set-top box and one or more social networks (abstract) and teaches teach comprises at least one of a link to a most recent posting by the user, a link to a most recently accessed social media site, a link to a favorite social media site, a link to a recently added social media site, a link to a last view social media site (paragraph 47 for using the television system for updating information on a social network and posting viewing information to the user's Facebook and Twitter account). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the link as taught by LaFreniere in the media system of Bangalore in order to update user's viewing information to a social network (LaFreniere, paragraph 47).

Regarding Claims 9 and 19, Bangalore teaches the method as shown above. Bangalore does not explicitly teach wherein the user approves the identified plurality of media sources. LaFreniere has a system and method for updating viewing status between a set-top box and one or more social networks (abstract) and teaches wherein the user approves the identified plurality of media sources (paragraph 51 for the user having permission rules or approval of the media that communicates with the set top box for allowing certain family member to see the media). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the permission as taught by LaFreniere in the media method of Bangalore in order to allow permission for family member to access the media (LaFreniere, paragraph 51).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036782

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Claims 6, 8, 16, and 18 lack an inventive step under PCT Article 33(3) as being obvious over Bangalore in view of Thomas, and further in view of Bachman et al, hereinafter Bachman.

Regarding Claims 6 and 16, Bangalore and Thomas teach the method as shown above. Bangalore and Thomas do not explicitly teach wherein at least one of the media sources is a device that is temporarily connected to the network. Bachman has Playlists having media items from more than one source (abstract) and teaches wherein at least one of the media sources is a device that is temporarily connected to the network (paragraph 24 for having an online store where the user has temporary access to the media or temporary adding media to viewing options due to ownership by another source). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the permission as taught by LaFreniere in the media method of Bangalore in order to allow a second source to provide the media items (Bachman, paragraph 24).

Regarding Claims 8 and 18, Bangalore and Thomas teach the method as shown above. Bangalore and Thomas do not explicitly teach wherein the user can temporarily add a media source to the plurality of media sources. Bachman has Playlists having media items from more than one source (abstract) and teaches wherein the user can temporarily add a media source to the plurality of media sources (paragraph 24 for having an online store where the user has temporary access to the media or temporary adding media to viewing options due to ownership by another source). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the permission as taught by LaFreniere in the media method of Bangalore in order to allow a second source to provide the media items (Bachman, paragraph 24).

Claim 10 lacks an inventive step under PCT Article 33(3) as being obvious over Bangalore in view of Thomas, and further in view of Egli et al, hereinafter Egli.

Regarding Claims 10, Bangalore and Thomas teach the method as shown above. Bangalore and Thomas do not explicitly teach wherein the user can identify a media item to be translated when accessed in the future. Egli has an online media delivery system incorporating combining on-the-fly media reformatting (abstract) and teaches wherein the user can identify a media item to be translated when accessed in the future (paragraph 33 for translating a media object for storage on a target device and storing the media object in the front side cache, therefore having it available for future access with paragraph 70 for using the objects in future requests). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the translation as taught by Egli in the media method of Bangalore in order to transform media items to client devices (Egli, paragraph 33).

Claims 1-20 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

WEITZEL, Scott
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-471-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/036678	16 April 2013 (16.04.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Philippe Bécamel

e-mail: pt03.pct@wipo.int

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-471-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/036678	International filing date *(day/month/year)* 16 April 2013 (16.04.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☒	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Philippe Bécamel e-mail: pt03.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Scott Weitzel
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, Colorado 80202
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	30 AUG 2013
Applicant's or agent's file reference 6583-471-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US13/36678	16 April 2013 (16.04.2013)	14 June 2012 (14.06.2012)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/0481, 3/0482 (2013.01)
USPC - 725/37

Applicant Flextronics AP, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☒ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	20 August 2013 (20.08.2013)	Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/36678

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

   ☐ on paper

   ☐ in electronic form

   b. (time)

   ☐ in the international application as filed

   ☐ together with the international application in electronic form

   ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/36678

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-20	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-5, 7-13, and 15-19 lack an inventive step under PCT Article 33(3) as being obvious over US 2011/0093888 A1 to Araki et al. (hereinafter 'Araki') in view of US 2011/0016492 A1 (Morita).

As to claims 1 and 15, Araki discloses a method, comprising and non-transitory machine readable medium with instructions to cause the machine to perform (a method, including and interactive television hardware and software; Abstract and paragraph [0180]): displaying, on an electronic device, a user interface of the electronic device, the user interface comprising a number of settings associated with a number of operating parameters of the electronic device and further associated with a functional silo of the electronic device (displaying, on an interactive television (electronic device), visual user interface of the interactive television, user interface includes settings related to the functions of the display of the interactive television associated including inputs, and device utility applications (silo of the electronic device); paragraphs [0076], [0100], [0197]); receiving, at an input interface of the electronic device, a user interface event associated with the user interface (providing, at an input to the user interface of the display's interactive television, a user-effected "click event" (user interface event) related to a graphical user interface; Figure 1 and paragraphs [0080], [0083]); upon the user interface event indicating a setting change to at least one setting, applying the setting change to the electronic device substantially without delay (user-effected "click event" representing an adjustment of settings (settings change) to a setting, selectable TV settings (applying the settings change) to the interactive television is responsive at all times (without delay); paragraphs [0097], [0100], [0143]). Araki fails to disclose upon receiving the user interface event indicating an exit function, preserving the setting change to the electronic device. Morita discloses upon receiving the user interface event indicating an exit function, preserving the setting change to the electronic device (selection (receiving the user interface event) of a done option (exit function) saves all the settings and changes made to the device parameters; paragraph [0157]). It would have been obvious to one skilled in the art at the time of the invention to modify the Araki system to include upon receiving the user interface event indicating an exit function, preserving the setting change to the electronic device, as taught by Morita, because doing so would make the Araki system provide for completion of the user adjusted settings function and return the user to the previous screen or the current program being watched.

As to claims 2 and 16, Araki, in view of Morita, discloses the method and instructions of claims 1 and 15, respectively. Additionally, Araki discloses wherein: the user interface, further comprises, a number of targets, substantially each of the number of targets being associated with at least one setting (Figure 8 shows where the user interface further includes a number of icons (targets), substantially each number of icons (targets) is associated with TV setting, parental control, network (settings); Figure 8 and paragraph [0097]) and the user interface event indicating a setting change, further comprises, the user interface event setting focus to a current target (and the user-effected "click event" (user interface event) representing a user adjustment of settings (settings change), further includes, the user-effected "click event" (user interface event) adjustment of setting selecting (focusing) a menu item/icon (target); Figure 8 and paragraphs [0097], [0100]); and the user interface event indicating the exit function, further comprises, the user interface event removing focus from the current target (and the user-effected "click event" (user interface event) representing the "exit input" (exit) function, further includes, the user-effected "click event" (user interface event) moving back to a prior navigation configuration (removing focus from the current target); paragraphs [0023], [0130], [0146]).

As to claims 3 and 17, Araki, in view of Morita, discloses the method and instructions of claims 2 and 16, respectively. Additionally, Araki discloses wherein displaying the user interface further comprises selectively presenting a number of sub-interfaces, each sub-interface presenting a portion of the number of targets (Figures 5-8 show when displaying the user interface further includes presenting a number of selectable sub-menus (sub-interfaces), each menu presenting a portion of the main icons (targets); Figures 5-8 and paragraphs [0097], [0098]).

As to claims 4 and 18, Araki, in view of Morita, discloses the method and instructions of claims 3 and 17, respectively. In addition, Araki discloses wherein the user interface event indicating the exit function (where the user-effected "click event" (user interface event) specifies an "exit input" function; paragraphs [0023], [0130], [0146]), further comprises, a user interface event removing focus from a current sub-interface (further includes, the user-effected "click event" (user interface event) moving back to the prior layer of the navigation GUI (removing focus from a current sub-interface); paragraphs [0023], [0130], [0146]).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/36678

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

The description is objected to as containing the following defect(s) under PCT Rule 66.2(a)(iii) in the form or contents thereof: Paragraph [0007], line 2 recites the limitation "a silos", however, this limitation should recite "a silo".

Claim 10 is objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: Claim 10, line 3 recites the limitation "a silos", however, this limitation should recite "a silo".

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/36678

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:
-***-Continued from Box No. V: Citations and Explanations-***-

As to claims 5 and 19, Araki, in view of Morita, discloses the method and instructions of claims 4 and 18, respectively. Araki fails to disclose wherein the user interface event indicating an exit function, further comprises a cancel function, whereby a settings change is backed out. Morita discloses wherein the user interface event indicating an exit function, further comprises a cancel function, whereby a settings change is backed out (user selection (user interface event) of cancel option (cancel function), where discard all the changes made in screen (settings changes is backed out); Figure 10 and paragraph [0157]). It would have been obvious to one skilled in the art at the time of the invention to modify the Araki system to include wherein the user interface event indicating an exit function, further comprises a cancel function, whereby a settings change is backed out, as taught by Morita, because doing so would make the Araki system discard of all the changes made in the user interface screen and return the user to the previous screen or show that was displayed.

As to claim 7, Araki, in view of Morita, discloses the method of claim 2. Additionally, Araki discloses wherein the user interface event indicating a setting change, further comprises, a supplemental user interface event indicating a value of the setting associated with the setting change (where the user interface for inputting elements specifying increasing or decreasing of a slide bar values (setting change), further includes, a inputting via a slider bar (supplemental user interface event) via a series of input elements specifying associated values of the controlled iTV function; paragraphs [0144]-[0145]).

As to claim 8, Araki, in view of Morita, discloses the method of claim 1. Additionally, Araki discloses wherein at least one silo is an input source to the electronic device (where device inputs (silo) is a device input such as an HDMI or USB to the interactive television (electronic device); paragraph [0100]).

As to claim 9, Araki in view of Morita, discloses the method of claim 1. Araki discloses wherein at least one silo is an application executable by the electronic device (where an IP TV (silo) is an application executed by the interactive television (electronic device); paragraph [0100]).

As to claim 10, Araki discloses an electronic device (interactive television; Figures 1, 4-8 and paragraph [0076]), comprising: a display, operable to present a visual portion of a audio-visual presentation (a display, operable to show a visual part of an audio-video presentation; Figures 1, 2, 4-8 and paragraphs [0076], [0077]); a silo, representing at least one of an application and an source input (a silo, having applications and device source inputs such as an HDMI or USB to the interactive television (electronic device); paragraph [0100]);
a settings dialog, operable to present a number of settings associated with the silo (Figure 8 shows a setting dialog, operable to present a number of setting related to an movies application and/or device input such as HDMI (silo); Figures 7, 8 and paragraph [0100]);
the settings dialog further comprising a number of targets, at least one target associated with a value of a setting of an operating parameter of the electronic device (settings dialog including a number of hotspot menu options/icons (targets), a hotspot menu options/icons (target) related to a value of setting active pixels (operating parameter) of the interactive television (electronic device); Figures 3A, 3B and paragraphs [0093], [0144]); an input operable to receive a user input (an input device to activate a click event via a user; paragraph [0077]); and upon receiving a user input setting focus to first target, applying the associated value to the setting for the silo associated with the first target (and upon providing user selection of a menu option/icon (first target), setting the active pixel values via a slide bar (applying the associated value to the setting) for a movies application and device inputs such as HDMI (silo) related to a menu option/icon (first target); paragraphs [0100], [0144]).

As to claim 11, Araki, in view of Morita, discloses the electronic device of claim 10. In addition, Araki discloses wherein, upon receiving the user input deselecting the first target as part of a cancel function, removing the applied associated value from the setting for the silo (where, upon providing a click action input device (user input), such as an "exit input" (cancel) function, changing the values via decreasing and/or increasing slide bar values related to an application and/or a device source input such as HDMI (silo) and moving back to a prior navigation configuration; paragraphs [0144]-[0146]).

As to claim 12, Araki, in view of Morita, discloses the electronic device of claim 10. In addition, Araki discloses at least one of the number of targets further comprise a user-determined value associated with at least one setting of the electronic device (one of the menu options/icons (targets) further includes user setting active pixels via increasing and/or decreasing values of a slide-bar (user determined value) related to user controlled iTV functions (electronic device); paragraphs [0144]-[0145]).

As to claim 13, Araki, in view of Morita, discloses the electronic device of claim 10. In addition, Araki discloses at least one sub-interface visually containing the first target and additional targets (a hotspots of menu (sub-interface) visually having the menu/icon (first target) and additional menu items/icon (targets); Figures 4-8, paragraph [0097]), whereby setting focus from a first target within the sub-interface to a second target not within the sub-interface causes the applied value associated with the setting to be preserved (where selecting or mousing over the hotspots (setting focus from a first target) within the menu items/icons to another menu item/icon in various hotspots (second target not within the sub-interface) causes the user set values via the slide bar setting to be confirm (preserved); paragraphs [0130], [0144]).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/36678

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:
-***-Continued from Previous Supplemental Box-***-

Claims 6 and 20 lack an inventive step under PCT Article 33(3) as being obvious over Araki in view of Morita, and further in view of US 2012/0120316 A1 (Lee).

As to claims 6 and 20, Araki, in view of Morita, discloses the method and instructions of claims 2 and 16, respectively. Araki, in view of Morita, fails to disclose wherein at least one of the number of targets is associated with settings which are preset settings. Lee discloses wherein at least one of the number of targets is associated with settings which are preset settings (where a number of menu screens or icons (targets) is related to preset items (settings which are preset settings); paragraph [0257]). It would have been obvious to one skilled in the art at the time of the invention to modify the Araki in view of Morita system to include wherein at least one of the number of targets is associated with settings which are preset settings, as taught by Lee, because doing so would make the Araki in view of Morita system provide for menu item setting in which the user is not permitted to edit.

Claim 14 lacks an inventive step under PCT Article 33(3) as being obvious over Araki in view of Morita and in further view of US 7,577,923 B2 to Beam, et al. (hereinafter 'Beam').

As to claim 14, Araki, in view of Morita, discloses the electronic device of claim 13. Araki, in view of Morita, fails to disclose setting focus from the first target to a third target, the third target being one of the additional targets within the sub-interface, causes the settings associated with the first target to be overwritten by the settings associated with the third target. Beam discloses setting focus from the first target to a third target, the third target being one of the additional targets within the sub-interface, causes the settings associated with the first target to be overwritten by the settings associated with the third target (selecting a view mode with a preferred setting (setting focus from the first target) within that view mode (additional targets within the sub-interface), causes the settings related to a mode (first) to toggle between an available mode and a preferred setting when selected and changes upon activation to indicate the currently selected mode (first target to be overwritten by the settings associated with the third target); Column 9, Lines 20-38). It would have been obvious to one skilled in the art at the time of the invention to modify the Araki in view of Morita system to include setting focus from the first target to a third target, the third target being one of the additional targets within the sub-interface, causes the settings associated with the first target to be overwritten by the settings associated with the third target, as taught by Beam, because doing so would make the Araki in view of Morita system provide for a preferred setting for each available view mode by changing the preferred setting via a user selection.

Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:

SWARTZ, Douglas, W.
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 26 February 2015 (26.02.2015)		
Applicant's or agent's file reference 6583-472-PCT	**IMPORTANT NOTICE**	
International application No. PCT/US2013/036804	International filing date *(day/month/year)* 16 April 2013 (16.04.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
Applicant FLEXTRONICS AP, LLC		

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Simin Baharlou

e-mail: pt09.pct@wipo.int

Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-472-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/036804	International filing date *(day/month/year)* 16 April 2013 (16.04.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 11 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Simin Baharlou e-mail: pt09.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: DOUGLAS W. SWARTZ
SHERIDAN ROSS P.C.
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	01 JUL 2013
Applicant's or agent's file reference 6583-472-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/036804	16 April 2013	14 June 2012

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 7/173 (2013.01)
USPC - 725/43

Applicant FLEXTRONICS AP, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	05 June 2013	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036804

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

   ☐ on paper

   ☐ in electronic form

   b. (time)

   ☐ in the international application as filed

   ☐ together with the international application in electronic form

   ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036804

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	2-4, 7-13, 15-20	YES
	Claims	1,5, 6, 14, 21	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-21	NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1, 5, 6, 14, 21, lack novelty under PCT Article 33(2) as being anticipated by Hardacker et al., hereinafter referred to as Hardacker.

Regarding claim 1, Hardacker discloses an Electronic Programming Guide (EPG) display for an intelligent television (TV), comprising a display on the intelligent TV, (figs.5 & 8 shows a television device 102 that accesses websites by utilizing the internet 702 and further a server constructs an Electronic Programming Guide (EPG) which is displayed on the television display 102 [interpreted as intelligent television], para 0246, 0247; figs 2 & 3 shows an EPG screenshot that displays television programming schedule on the EPG screen of the on screen displays (OSD's), para 0045, 0048), the display comprising:
a schedule portion accessible and/or configurable using an input device to display a schedule including past, current, and/or upcoming TV programs (figs 2 & 3 show an EPG guide with a section 60 [schedule portion] which provides the users television programs at particular date and time over a two week period of time [interpreted as a schedule including upcoming TV programs] with options to page from right to left and top to bottom to access contents and also provides the channel names for the respective television programs, para 0043, 0045-0047; a remote control which includes hot keys to access the screen is used to send commands to the set top box 106 by accessing the EPG, para 0048, 0075, 0076; a remote control includes buttons and has the functionality of clicking on the screen to select an icon on the menu, and further when a guide button is pressed on a remote control device the recorder becomes aware of the scheduled content is to be browsed from the EPG [interpreted as schedule portion accessible using an input device], para 0100, 0193);
and a banner portion configured to display EPG information related to a selected TV program in the schedule portion (figs 2 & 3 show an EPG guide with a section 64 [banner portion] which provides information content related to the television program being highlighted by the users selection in the EPG section 60 [schedule portion], and the section 64 provides entire detailed program information for the highlighted program [as we can see in the fig.2 the section 64 provides information about the television program "THREE WISHES" which is selected on the section 60], para 0047, 0074),
wherein the schedule and the displayed EPG information are built using EPG information aggregated from a plurality of EPG information sources (the receiver device such as a TV creates a database from information provided by the access device such as a set top box, each screen of the EPG is run and data is extracted, data includes name of the programs [EPG information source], obtaining the virtual numbers for channels such as HBO or CNN [EPG information source] and their content [EPG information sources], the TV stores this information in its own metadata database [aggregated EPG information] it uses these information to create its own EPG [EPG is built] and creates timers, further all the data which includes the scheduling data required to create the EPG comes from the access device, para 0048-0050; fig. 8 shows a OCR process initialization at step 354 service provider channel database is initialized and at step 358 it is determined that the 2 week guide for television channel information is out of date and updates it by getting data from the service provider database, para 0144, 0150, 0156-0162; figs 2 & 3 shows an EPG guide with a section 60 [schedule portion] which provides the users television programs at particular date and time over a two week period of time [interpreted as a schedule including upcoming TV programs] with options to page from right to left and top to bottom to access contents and also provides the channel names for the respective television programs, para 0043, 0045-0047).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036804

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claim 14, Hardacker discloses a method of displaying Electronic Programming Guide (EPG) information on a intelligent television (TV) (a method is shown in figs.5 & 8 for a television device 102 that accesses websites by utilizing the internet 702 and further a server constructs an Electronic Programming Guide (EPG) which is displayed on the television display 102 [interpreted as intelligent television], abstract, para 0246, 0247; figs 2 & 3 shows an EPG screenshot that displays television programming schedule on the EPG screen of the on screen displays (OSD's), para 0045, 0048), comprising:
building and displaying aggregated EPG information from a plurality of EPG sources on a screen of the intelligent TV, the EPG sources comprise one or more of embedded EPG information in a content feed, an Internet EPG information source, and an EPG channel (the receiver device such as a TV creates a database from information provided by the access device such as a set top box, each screen of the EPG is run and data is extracted, data includes name of the programs [in reference to the Applicant's Specification on para 0171 which states that the embedded EPG information contains information which includes show name interpreted as embedded EPG information in a content feed], obtaining the virtual numbers for channels such as HBO or CNN [EPG information source] and their content [EPG information sources], the TV stores this information in its own metadata database [aggregated EPG information] it uses these information to create its own EPG [EPG is built] and creates timers, further all the data which includes the scheduling data required to create the EPG comes from the access device, para 0048-0050; fig. 8 shows a OCR process initialization at step 354 service provider channel database is initialized and at step 358 it is determined that the 2 week guide for television channel information is out of date and updates it by getting data from the service provider database, para 0144, 0150, 0156-0162; figs 2 & 3 shows an EPG guide displayed with a section 60 which provides the users television programs at particular date and time over a two week period of time with options to page from right to left and top to bottom to access contents and also provides the channel names for the respective television programs, para 0043, 0045-0047).

Regarding claim 5, Hardacker further teaches wherein the banner portion comprises one or more of a thumbnail, a name, a detailed description, a start and stop time, and a video and/or audio format for the selected TV program (figs 2 & 3 show an EPG guide with a section 64 [banner portion] which provides information content related to the television program being highlighted by the users selection in the EPG section 60 [schedule portion], and the section 64 provides entire detailed program information for the highlighted program [as we can see in the fig.2 the section 64 provides information about the television program "THREE WISHES" [interpreted as a name of the television program] which is selected on the section 60], para 0047, 0074).

Regarding claim 6, Hardacker further teaches wherein the EPG information sources comprise one or more of embedded EPG information in a content feed, an Internet EPG information source, and an EPG channel (the receiver device such as a TV creates a database from information provided by the access device such as a set top box, each screen of the EPG is run and data is extracted, data includes name of the programs [in reference to the Applicant's Specification on para 0171 which states that the embedded EPG information contains information which includes show name interpreted as embedded EPG information in a content feed], obtaining the virtual numbers for channels such as HBO or CNN [EPG information source] and their content [EPG information sources], the TV stores this information in its own metadata database [aggregated EPG information] it uses these information to create its own EPG [EPG is built] and creates timers, further all the data which includes the scheduling data required to create the EPG comes from the access device, para 0048-0050).

Regarding claim 21, Hardacker further teaches a tangible and non-transient computer readable medium comprising microprocessor executable instructions that, when executed by the microprocessor, perform the steps of claim 14 (a computer readable storage medium includes a processor for executing programming instructions, para 0285).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036804

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Claims 2, 7-11, 16, 17, 20, lack an inventive step under PCT Article 33(3) as being obvious over Hardacker in view of Singh et al., hereinafter referred to as Singh.

Regarding claim 7, Hardacker discloses an Electronic Programming Guide (EPG) display for an intelligent television (TV), comprising a partial-screen display of the intelligent TV (figs.5 & 8 shows a television device 102 that accesses websites by utilizing the internet 702 and further a server constructs an Electronic Programming Guide (EPG) which is displayed on the television display 102 [interpreted as intelligent television], para 0246, 0247; figs 2 & 3 shows an EPG screenshot that displays television programming schedule on the EPG screen of the on screen displays (OSD's) [fig 2 further shows a part of screen which includes an active video which is being played, and the other part includes the program channel guide information interpreted as partial screen display], para 0045, 0048),
the partial-screen display comprising displayed EPG information regarding a TV program (figs 2 & 3 show an EPG guide with a section 60 which provides the users television programs at particular date and time over a two week period of time with options to page from right to left and top to bottom to access contents and also provides the channel names for the respective television programs, and further section 64 provides information content related to the television program being highlighted by the users selection in the EPG section 60 [fig 2 further shows a part of screen which includes an active video which is being played, and the other part includes the program channel guide information interpreted as partial screen display], para 0043, 0045-0047),
wherein the displayed EPG information is built using EPG information aggregated from a plurality of EPG information sources, the EPG information sources comprising one or more of embedded EPG information in a content feed, an Internet EPG information source, and an EPG channel (the receiver device such as a TV creates a database from information provided by the access device such as a set top box, each screen of the EPG is run and data is extracted, data includes name of the programs [in reference to the Applicant's Specification on para 0171 which states that the embedded EPG information contains information which includes show name interpreted as embedded EPG information in a content feed], obtaining the virtual numbers for channels such as HBO or CNN [EPG information source] and their content [EPG information sources], the TV stores this information in its own metadata database [aggregated EPG information] it uses these information to create its own EPG [EPG is built] and creates timers, further all the data which includes the scheduling data required to create the EPG comes from the access device, para 0048-0050; fig. 8 shows a OCR process initialization at step 354 service provider channel database is initialized and at step 358 it is determined that the 2 week guide for television channel information is out of date and updates it by getting data from the service provider database, para 0144, 0150, 0156-0162; figs 2 & 3 shows an EPG guide with a section 60 which provides the users television programs at particular date and time over a two week period of time with options to page from right to left and top to bottom to access contents and also provides the channel names for the respective television programs, para 0043, 0045-0047), but lacks the teaching of a partial-screen display on an in-use display of the intelligent TV.
Singh is in the field of a television receiver that displays two video programs and an electronic program guide simultaneously as a split screen (abstract, fig.4) and teaches a partial-screen display on an in-use display of the intelligent TV (fig. 4 shows a television receiver with two on board tuners [intelligent TV] provides an output screen 21 with a left hand screen 22 [an in-use display] which contains a first video program received from a video source, and the right half screen 23 [a partial-screen display] contains the interactive EPG which the user can scroll through and select a program from a plurality of program channels which is viewed on the picture in picture (PIP) simultaneously with the video source 1 being viewed, col.2, lines 57- 67- col.3, lines 1-30), the partial-screen display comprises EPG information regarding a TV program (the right half screen 23 [a partial-screen display] contains the interactive EPG which the user can scroll through and select a program from a plurality of program channels which is viewed on the picture in picture (PIP) simultaneously with the video source 1 being viewed, col.2, lines 57- 67- col.3, lines 1-30). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Singh to incorporate a partial-screen display on an in-use display of the intelligent TV, the partial-screen display comprising displayed EPG information regarding a TV program into the invention of Hardacker. The motivation would have been to provide the user with the function to watch a video program while scrolling through an interactive EPG for selecting programs (see Singh, Col. 1, lines 39-53).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036804

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claim 2, Hardacker further teaches wherein the display is a full-screen display and wherein the full-screen display further comprises a TV portion configured to display a TV program (figs 2 & 3 show an EPG guide [full screen display] with a section 60 which provides the users television programs at particular date and time over a two week period of time with options to page from right to left and top to bottom to access contents and also provides the channel names for the respective television programs, and further a window on the top right is show which provides active video [interpreted as TV portion configured to display a TV program], para 0043, 0045-0047), but lacks the teaching of comprises a live TV portion configured to display a selected TV program.
Singh is in the field of a television receiver that displays two video programs and an electronic program guide simultaneously as a split screen (abstract, fig.4) and teaches comprises a live TV portion configured to display a selected TV program (fig. 4 shows a television receiver with two on board tuners [intelligent TV] provides an output screen 21 with a left hand screen 22 [an in-use display] which contains a first video program received from a video source, in the section 23 the user can scroll through and select a program from a plurality of program channels which is viewed on the picture in picture (PIP) simultaneously with the video source 1 being viewed, the EPG includes the PIP window and displays a currently telecast program and the viewer changes the program in the PIP by cursoring through the list of currently telecast programs [live TV portion] in the EPG, col.1, lines 39-49, col.2, lines 57- 67- col.3, lines 1-30). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Singh to incorporate comprises a live TV portion configured to display a selected TV program into the invention of Hardacker. The motivation would have been to provide the user with the function to watch a video program while scrolling through an interactive EPG for selecting programs (see Singh, Col. 1, lines 39-53).

Regarding claim 8, Hardacker lacks the teaching of wherein the partial-screen display overlays the in-use display of the intelligent TV.
Singh is in the field of a television receiver that displays two video programs and an electronic program guide simultaneously as a split screen (abstract, fig.4) and teaches wherein the partial-screen display overlays the in-use display of the intelligent TV (fig. 4 shows a television receiver with two on board tuners [intelligent TV] provides an output screen 21 with a left hand screen 22 [an in-use display] which contains a first video program received from a video source, and the right half screen 23 [a partial-screen display] contains the interactive EPG which the user can scroll through and select a program from a plurality of program channels which is viewed on the picture in picture (PIP) simultaneously with the video source 1 being viewed [fig. 4 shows the partial screen display overlays the in use display], col.2, lines 57- 67- col.3, lines 1-30). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Singh to incorporate wherein the partial-screen display overlays the in-use display of the intelligent TV into the invention of Hardacker. The motivation would have been to provide the user with the function to watch a video program while scrolling through an interactive EPG for selecting programs (see Singh Col. 1, lines 39-53).

Regarding claim 9, Hardacker lacks the teaching of wherein the in-use display comprises a currently playing TV program.
Singh is in the field of a television receiver that displays two video programs and an electronic program guide simultaneously as a split screen (abstract, fig.4) and teaches wherein the in-use display comprises a playing TV program (fig. 4 shows a television receiver with two on board tuners [intelligent TV] provides an output screen 21 with a left hand screen 22 [an in-use display] which contains a first video program received from a video source, and the right half screen 23 [a partial-screen display] contains the interactive EPG, the section 22 which is the in-use display receives a video program from an on board tuner and provides the video source 1 [interpreted as playing a TV program], col.2, lines 57- 67- col.3, lines 1-30). Furthermore, Singh teaches wherein the display comprises a currently playing TV program (in the section 23 the user can scroll through and select a program from a plurality of program channels which is viewed on the picture in picture (PIP) simultaneously with the video source 1 being viewed, the EPG includes the PIP window and displays a currently telecast program and the viewer changes the program in the PIP by cursoring through the list of currently telecast programs in the EPG, col.1, lines 39-49, col.2, lines 57- 67- col.3, lines 1-30). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Singh to incorporate wherein the in-use display comprises a currently playing TV program into the invention of Hardacker. The motivation would have been to provide the user with the function to watch a video program while scrolling through an interactive EPG for selecting programs (see Singh, Col. 1, lines 39-53).

Regarding claim 10, Hardacker lacks the teaching of wherein the partial-screen display resizes the in-use display.
Singh is in the field of a television receiver that displays two video programs and an electronic program guide simultaneously as a split screen (abstract, fig.4) and teaches herein the partial-screen display resizes the in-use display (a television is provided with a remote control unit to control the television and scan through the EPG, the remote includes an EPG button upon pressing that button the EPG section of the screen comes up to present an multi window screen to the user as shown in fig.4 [as upon the user selection of the EPG button the screen becomes and multi window screen it is inherent that the partial screen display is resizes the in use display], col.3, lines 11-30; fig. 4 shows a television receiver with two on board tuners provides an output screen 21 with a left hand screen 22 [an in-use display] which contains a first video program received from a video source, and the right half screen 23 [a partial-screen display] contains the interactive EPG, the section 22 which is the in-use display receives a video program from an on board tuner and provides the video source 1, col.2, lines 57- 67- col.3, lines 1-30). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Singh to incorporate wherein the partial-screen display resizes the in-use display into the invention of Hardacker. The motivation would have been to provide the user with the function to watch a video program while scrolling through an interactive EPG for selecting programs (see Singh, Col. 1, lines 39-53).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claim 11, Hardacker lacks the teaching of wherein the partial-screen display comprises a banner located at a top of the in-use display.
Singh is in the field of a television receiver that displays two video programs and an electronic program guide simultaneously as a split screen (abstract, fig.4) and teaches wherein the partial-screen display comprises a banner located at the top of the display (fig. 4 shows a television receiver with two on board tuners provides an output screen 21 with a left hand screen 22 [an in-use display] which contains a first video program received from a video source, and the right half screen 23 [a partial-screen display] contains the interactive EPG which the user can scroll through and select a program from a plurality of program channels which is viewed on the picture in picture (PIP) display [the PIP is interpreted as banner located on the top of the display], col.2, lines 57- 67- col.3, lines 1-30; the PIP part of the image is arbitrarily positioned anywhere within the main picture and can be resized, col.1, lines 25-30). Furthermore, to establish the banner to be located on top of the in-use display is a matter of design choice and would have been a known practice in the art. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Singh to incorporate wherein the partial-screen display comprises a banner located at a top of the in-use display into the invention of Hardacker. The motivation would have been to provide the user with the function to watch a video program while scrolling through an interactive EPG for selecting programs (see Singh, Col. 1, lines 39-53).

Regarding claim 16, Hardacker lacks the teaching of further comprising displaying an in-use portion on the screen, wherein displaying the aggregated EPG information comprises displaying the aggregated EPG information on a partial-screen portion of the screen in combination with the in-use portion.
Singh is in the field of a television receiver that displays two video programs and an electronic program guide simultaneously as a split screen (abstract, fig.4) and teaches comprising displaying an in-use portion on the screen, wherein displaying the aggregated EPG information comprises displaying the aggregated EPG information on a partial-screen portion of the screen in combination with the in-use portion (fig. 4 shows a television receiver with two on board tuners provides an output screen 21 with a left hand screen 22 [an in-use display] which contains a first video program received from a video source, and the right half screen 23 [a partial-screen display] contains the interactive EPG, the section 22 which is the in-use display receives a video program from an on board tuner and provides the video source 1 [interpreted as displaying in use portion in combination with the partial screen portion], col.2, lines 57- 67- col.3, lines 1-30). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Singh to incorporate w comprising displaying an in-use portion on the screen, wherein displaying the aggregated EPG information comprises displaying the aggregated EPG information on a partial-screen portion of the screen in combination with the in-use portion into the invention of Hardacker. The motivation would have been to provide the user with the function to watch a video program while scrolling through an interactive EPG for selecting programs (see Singh, Col. 1, lines 39-53).

Regarding claim 17, Hardacker lacks the teaching of wherein the in-use portion comprises a currently playing TV program.
Singh is in the field of a television receiver that displays two video programs and an electronic program guide simultaneously as a split screen (abstract, fig.4) and teaches wherein the in-use display comprises a playing TV program (fig. 4 shows a television receiver with two on board tuners [intelligent TV] provides an output screen 21 with a left hand screen 22 [an in-use display] which contains a first video program received from a video source, and the right half screen 23 [a partial-screen display] contains the interactive EPG, the section 22 which is the in-use display receives a video program from an on board tuner and provides the video source 1 [interpreted as playing a TV program], col.2, lines 57- 67- col.3, lines 1-30). Furthermore, Singh teaches wherein the display comprises a currently playing TV program (in the section 23the user can scroll through and select a program from a plurality of program channels which is viewed on the picture in picture (PIP) simultaneously with the video source 1 being viewed, the EPG includes the PIP window and displays a currently telecast program and the viewer changes the program in the PIP by cursoring through the list of currently telecast programs in the EPG, col.1, lines 39-49, col.2, lines 57- 67- col.3, lines 1-30). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Singh to incorporate wherein the in-use display comprises a currently playing TV program into the invention of Hardacker. The motivation would have been to provide the user with the function to watch a video program while scrolling through an interactive EPG for selecting programs (see Singh, Col. 1, lines 39-53).

Regarding claim 20, Hardacker lacks the teaching of wherein the partial-screen portion comprises a banner located at a top of the in-use portion.
Singh is in the field of a television receiver that displays two video programs and an electronic program guide simultaneously as a split screen (abstract, fig.4) and teaches wherein the partial-screen display comprises a banner located at the top of the display portion (fig. 4 shows a television receiver with two on board tuners provides an output screen 21 with a left hand screen 22 [an in-use display] which contains a first video program received from a video source, and the right half screen 23 [a partial-screen display] contains the interactive EPG which the user can scroll through and select a program from a plurality of program channels which is viewed on the picture in picture (PIP) display [the PIP is interpreted as banner located on the top of the display], col.2, lines 57- 67- col.3, lines 1-30; the PIP part of the image is arbitrarily positioned anywhere within the main picture and can be resized, col.1, lines 25-30). Furthermore, to establish the banner to be located on top of the in-use portion is a matter of design choice and would have been a known practice in the art. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Singh to incorporate wherein the partial-screen display comprises a banner located at a top of the in-use portion into the invention of Hardacker. The motivation would have been to provide the user with the function to watch a video program while scrolling through an interactive EPG for selecting programs (see Singh, Col. 1, lines 39-53).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Claims 3, 4, 15, lack an inventive step under PCT Article 33(3) as being obvious over Hardacker in view of Drazin et al., hereinafter referred to as Drazin.

Regarding claim 3, Hardacker lacks the teaching of wherein the display further comprises hot key functionalities accessible for one or more TV programs in the schedule.
Drazin is in the field of an electronic program guide for television programs presenting a list of programs on screen (abstract) and teaches wherein the display further comprises hot key functionalities accessible for one or more TV programs in the schedule (figs. 14b & 14c shows an EPG guide and which includes a button 720 "Keep" [interpreted as hot keys] which is displayed on the top of the screen here, a user selects the button 720 which results in action of labeling a program or series title which is in focus as kept and causes the programs to be kept in stack of 'kept' programs, para 0184). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Drazin to incorporate wherein the display further comprises hot key functionalities accessible for one or more TV programs in the schedule into the invention of Hardacker. The motivation would have been to provide an improved and effective EPG for a television system (see Drazin para 0001-0004).

Regarding claim 4, Hardacker lacks the teaching of wherein the hot key functionalities comprises one or more of displaying currently playing TV programs, assigning categories to the selected TV program, managing the selected TV program, and marking the selected TV program.
Drazin is in the field of an electronic program guide for television programs presenting a list of programs on screen (abstract) and teaches wherein the hot key functionalities comprises one or more of displaying currently playing TV programs, assigning categories to the selected TV program, managing the selected TV program, and marking the selected TV program (figs. 14b & 14c shows an EPG guide and which includes a button 720 "Keep" [interpreted as hot keys] which is displayed on the top of the screen here, a user selects the button 720 which results in action of labeling a program or series title which is in focus as kept and causes the programs to be kept in stack of 'kept' programs [the action of labeling is interpreted as marking the selected TV program], para 0184). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Drazin to incorporate wherein the hot key functionalities comprises one or more of displaying currently playing TV programs, assigning categories to the selected TV program, managing the selected TV program, and marking the selected TV program into the invention of Hardacker. The motivation would have been to provide an improved and effective EPG for a television system (see Drazin para 0001-0004).

Regarding claim 15, Hardacker further teaches wherein displaying the aggregated EPG information comprises displaying a combination of the aggregated EPG information and a schedule including current, and upcoming TV programs on a full-screen portion of the screen (figs 2 & 3 show an EPG guide with a section 60 [schedule portion] which provides the users television programs at particular date and time over a two week period of time [interpreted as a schedule including upcoming TV programs] with options to page from right to left and top to bottom to access future television programing contents and also provides the channel names for the respective television programs, para 0043, 0045-0047; the receiver device such as a TV creates a database from information provided by the access device such as a set top box, each screen of the EPG is run and data is extracted, data includes name of the programs, obtaining the virtual numbers for channels such as HBO or CNN and their content, the TV stores this information in its own metadata database [aggregated EPG information] it uses these information to create its own EPG which displays all the available current and future contents [current and upcoming TV programs], further all the data which includes the scheduling data required to create the EPG comes from the access device, para 0048-0050), wherein the schedule is accessible and configurable using an input device (a remote control which includes hot keys to access the screen is used to send commands to the set top box 106 by accessing the EPG, para 0048, 0075, 0076; a remote control includes buttons and has the functionality of clicking on the screen to select an icon on the menu, and further when a guide button is pressed on a remote control device the recorder becomes aware of the scheduled content is to be browsed from the EPG [interpreted as schedule portion accessible using an input device], para 0100, 0193), and wherein the schedule is built from the aggregated EPG information (the receiver device such as a TV creates a database from information provided by the access device such as a set top box, each screen of the EPG is run and data is extracted, data includes name of the programs, obtaining the virtual numbers for channels such as HBO or CNN [EPG information source] and their content, the TV stores this information in its own metadata database [aggregated EPG information] it uses these information to create its own EPG [EPG is built] and creates timers, further all the data which includes the scheduling data required to create the EPG comes from the access device, para 0048-0050), but lacks the teaching of the schedule includes past TV programs and wherein the schedule is accessible and configurable using an input device. Drazin is in the field of an electronic program guide for television programs presenting a list of programs on screen (abstract) and teaches wherein the schedule is accessible and configurable using an input device (a user moves a cursor [input device] onto a desired program and selects the "schedule" option in the EPG of fig.10, here the highlighted program "Football Italia" is to be repeated for the user and the viewer is presented with the option of recording the program and upon selection of "record" the program is setup to be recorded, para 0158, 0159, 0171). Furthermore, EPG schedules having past TV programs would have been a well known practice in the art and a matter of design choice. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Drazin to incorporate wherein the schedule is accessible and configurable using an input device into the invention of Hardacker. The motivation would have been to provide an improved and effective EPG for a television system and to provide the users informention on recently broadcast TV programs (see Drazin para 0001-0004).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Claims 12, 13, 18, 19, lack an inventive step under PCT Article 33(3) as being obvious over Hardacker in view of Singh and further in view of Ellis et al., hereinafter referred to as Ellis.

Regarding claim 12, Hardacker lacks the teaching of wherein the partial-screen display comprises an EPG information portion displaying the displayed EPG information located to the side of the in-use display and comprising a button portion having selectable buttons for accessing one or more of scenes, audio tracks, and subtitle tracks in the currently playing TV program.
Singh is in the field of a television receiver that displays two video programs and an electronic program guide simultaneously as a split screen (abstract, fig.4) and teaches wherein the partial-screen display comprises an EPG information portion displaying the displayed EPG information located to the side of the in-use display (fig. 4 shows a television receiver with two on board tuners provides an output screen 21 with a left hand screen 22 [an in-use display] which contains a first video program received from a video source, and the right half screen 23 [a partial-screen display] contains the interactive EPG which the user can scroll through and select a program from a plurality of program channels which is viewed on the picture in picture (PIP) simultaneously with the video source 1 being viewed on the side, col.2, lines 57- 67- col.3, lines 1-30) and comprising a button portion having selectable buttons for accessing the currently playing TV program (in the section 23the user can scroll through and select a program from a plurality of program channels which is viewed on the picture in picture (PIP) simultaneously with the video source 1 being viewed, the EPG includes the PIP window and displays a currently telecast program and the viewer changes the program in the PIP by cursoring through the list of currently telecast programs in the EPG, col.1, lines 39-49, col.2, lines 57- 67- col.3, lines 1-30). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Singh to incorporate wherein the partial-screen display comprises an EPG information portion displaying the displayed EPG information located to the side of the in-use display into the invention of Hardacker. The motivation would have been to provide the user with the function to watch a video program while scrolling through an interactive EPG for selecting programs (see Singh, Col. 1, lines 39-53).
Ellis is in the field of an interactive television program guide that provides users with opportunity to select languages for playing television programs (abstract) and teaches wherein the display comprises information portion comprising a button portion having selectable buttons for accessing one or more of scenes, audio tracks, and subtitle tracks in the TV program (figs 7a & 7b shows a information screen 161 which provides information for a program, the user gets more information about a program that he is watching by the info key and the user accesses various program guide functions and this includes button 157 which provides the user to select different languages which the user desires from a list of languages available to the user [select from a list of language is interpreted as selectable buttons for accessing audio tracks], page 25, lines 7-35, page 26, lines 1-11). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Ellis to incorporate wherein the display comprises information portion comprising a button portion having selectable buttons for accessing one or more of scenes, audio tracks, and subtitle tracks in the TV program into the invention of Hardacker. The motivation would have been to provide the users with an optimized information guide for better accessibility.

Regarding claim 13, Hardacker further teaches comprising a schedule for a channel playing the currently playing TV program (figs 2 & 3 show an EPG guide with a section 60 [schedule portion] which provides the users television programs at particular date and time over a two week period of time [interpreted as a schedule] with options to page from right to left and top to bottom to access contents and also provides the channel names for the respective television programs [fig. 2 shows the schedule for currently selected channel 4 NBC which is currently playing the television program "Three Wishes"], para 0043, 0045-0047; fig. 14 shows an image displaying details of a currently playing program channel and provides the schedule for it, para 0195, 0222).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/036804

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claim 18, Hardacker lacks the teaching of wherein the partial-screen portion is located to the side of the in-use portion and further comprises a button portion having at least one selectable button for accessing one or more of scenes, audio tracks, and subtitle tracks in the currently playing TV program.
Singh is in the field of a television receiver that displays two video programs and an electronic program guide simultaneously as a split screen (abstract, fig.4) and teaches wherein the partial-screen display comprises an EPG information portion displaying the displayed EPG information located to the side of the in-use display (fig. 4 shows a television receiver with two on board tuners provides an output screen 21 with a left hand screen 22 [an in-use display] which contains a first video program received from a video source, and the right half screen 23 [a partial-screen display] contains the interactive EPG which the user can scroll through and select a program from a plurality of program channels which is viewed on the picture in picture (PIP) simultaneously with the video source 1 being viewed on the side, col.2, lines 57- 67- col.3, lines 1-30) and comprising a button portion having selectable buttons for accessing the currently playing TV program (in the section 23the user can scroll through and select a program from a plurality of program channels which is viewed on the picture in picture (PIP) simultaneously with the video source 1 being viewed, the EPG includes the PIP window and displays a currently telecast program and the viewer changes the program in the PIP by cursoring through the list of currently telecast programs in the EPG, col.1, lines 39-49, col.2, lines 57- 67- col.3, lines 1-30). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Singh to incorporate wherein the partial-screen display comprises an EPG information portion displaying the displayed EPG information located to the side of the in-use display into the invention of Hardacker. The motivation would have been to provide the user with the function to watch a video program while scrolling through an interactive EPG for selecting programs (see Singh, Col. 1, lines 39-53).
Ellis is in the field of an interactive television program guide that provides users with opportunity to select languages for playing television programs (abstract) and teaches wherein the display comprises information portion comprising a button portion having selectable buttons for accessing one or more of scenes, audio tracks, and subtitle tracks in the TV program (figs 7a & 7b shows a information screen 161 which provides information for a program, the user gets more information about a program that he is watching by the info key and the user accesses various program guide functions and this includes button 157 which provides the user to select different languages which the user desires from a list of languages available to the user [select from a list of language is interpreted as selectable buttons for accessing audio tracks], page 25, lines 7-35, page 26, lines 1-11). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Ellis to incorporate wherein the display comprises information portion comprising a button portion having selectable buttons for accessing one or more of scenes, audio tracks, and subtitle tracks in the TV program into the invention of Hardacker. The motivation would have been to provide the users with an optimized information guide for better accessibility.

Regarding claim 19, Hardacker further teaches wherein the partial-screen portion further comprises a schedule for a channel playing the currently playing TV program (figs 2 & 3 show an EPG guide with a section 60 [schedule portion] which provides the users television programs at particular date and time over a two week period of time [interpreted as a schedule] with options to page from right to left and top to bottom to access contents and also provides the channel names for the respective television programs [fig. 2 shows the schedule for currently selected channel 4 NBC which is currently playing the television program "Three Wishes"], para 0043, 0045-0047; fig. 14 shows an image displaying details of a currently playing program channel and provides the schedule for it, para 0195, 0222).

Claims 1-21 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

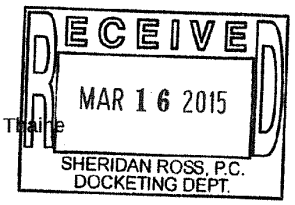
PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:



LENNOX-GENTLE, Thaine
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)*	
26 February 2015 (26.02.2015)	
Applicant's or agent's file reference	IMPORTANT NOTICE
6583-478-PCT	

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055405	16 August 2013 (16.08.2013)	17 August 2012 (17.08.2012)

Applicant: FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

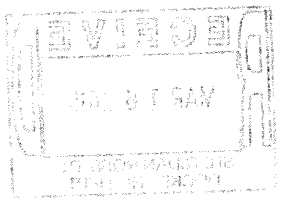
The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Simin Baharlou

e-mail: pt09.pct@wipo.int

Form PCT/IB/326 (January 2004)



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-478-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055405	International filing date *(day/month/year)* 16 August 2013 (16.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 6 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Simin Baharlou e-mail: pt09.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Thaine Lennox-Gentle
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	17 JAN 2014
Applicant's or agent's file reference 6583-478-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US13/55405	16 August 2013 (16.08.2013)	17 August 2012 (17.08.2012)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/048; H04N 21/40; H04B 1/16 (2014.01)
USPC - 715/836; 715/835; 348/553

Applicant Flextronics AP, LLC

1. This opinion contains indications relating to the following items:

- [x] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [x] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to th IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fom PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	05 January 2014 (05.01.2014)	Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55405

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

☒ the international application in the language in which it was filed.

☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

a. (means)

☐ on paper

☐ in electronic form

b. (time)

☐ in the international application as filed

☐ together with the international application in electronic form

☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55405

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	5, 6, 18-20	YES
	Claims	1-4, 7-17	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-4 and 7-17 lack novelty under PCT Article 33(2) as being anticipated by US 2009/0204929 A1 to BAURMANN, T. et al. (hereinafter 'Baurmann').

As per claim 1, Baurmann discloses a television system comprising: a screen (television screen [screen]; figure 2; paragraph [0008]); a memory (memory [memory]; figure 1; paragraph [0013]); a user input module for receiving a user navigation input from a user input source (IR receiver for receiving wireless signal from hand-held remote [user input module]; paragraph [0014]); a navigable user interface comprising: a list of two or more subsets of selectable channel tiles on the screen (favorite objects displayed in plurality of sub-groups on screen [two or more subsets]; figure 2; paragraph [0063]), the list being displayed laterally on the screen in a single row (list is displayed laterally [displayed laterally]; figure 2) and each of the subsets of selectable channel tiles containing at least one selectable channel tile (each sub-group contains one selectable tile [at least one selectable channel tile]; figure 2; paragraph [0063]); and a focus responsive to a user navigation input and indicating a selectable channel tile to be selected (focused icon in response to a user command [focus]; figure 2; paragraph [0008, 0018, 0019]); wherein each selectable channel tile is associated with a channel available for display by the television system (favorite objects are associated with respective TV channels to display [channel tile associated with channel]; figure 2, 3; paragraph [0016-0018]) and selection of a selectable channel tile causes the television system to display the channel associated with the selected channel tile (should the user manipulate, e.g., the enter key on the remote, the processor automatically causes the TV channel associated with the object to be tuned to and displayed [selection causes channel to be displayed]; figure 2; paragraph [0018]).

As per claim 2, Baurmann discloses the system of claim 1. Baurmann further discloses wherein only a portion of the list of two or more subsets of selectable channel tiles are displayed on the screen (only portion of favorite object displayed at edges of lateral menu [only portion displayed]; figure 2).

As per claim 3, Baurmann discloses the system of claim 1. Baurmann further discloses wherein the user data comprises at least a user-defined list of favorite channels (list of favorite channels selected by user [user-defined list of favorite channels]; figure 2, 3; paragraph [0016]) and a history of channels previously viewed by a user (history list [history of channels]; paragraph [0020, 0024]), and further wherein the two or more subsets of selectable channel tiles contain at least a first and second subset of selectable channel tiles (plurality of favorite objects contain plurality of selectable channel tiles [first and second subset of selectable channel tiles]; figure 2; paragraph [0063]), the first subset containing a list of selectable channel tiles corresponding to the user-defined list of favorite channels (favorite channel list displayed under TV channel favorite object [first subset favorite list]; figure 2; paragraph [0025-0032]) and the second subset containing a dynamically defined list of selectable channel tiles, the channel tiles of the second subset being defined based upon one or more of the user-defined list of favorite channels and a history of channels previously viewed by a user (favorite list and history list displayed under TV channel favorite object [second subset one or more of favorite list and history of channels]; figure 2, 3; paragraph [0020, 0024-0032, 0039]).

As per claim 4, Baurmann discloses the system of claim 1. Baurmann further discloses wherein the user input source is a remote control comprising a directional pad and a selection button (remote with D-pad [remote]; figure 1).

As per claim 7, Baurmann discloses a method of providing a user-interface for a television system comprising: displaying a list of two or more selectable channel tiles on a display (favorite objects displayed in plurality of sub-groups on screen [two or more subsets]; figure 2; paragraph [0063]); displaying a focus on a first of the two or more selectable channel tiles (focused icon in response to a user command [focus]; figure 2; paragraph [0008, 0018, 0019]); receiving a user input from a user input source (IR receiver for receiving wireless signal from hand-held remote [user input module]; paragraph [0014]); determining the type of user input received (processor determines the type of input received [determining input received]; figure 1, 3; paragraph [0014, 0017, 0018, 0022, 0024]); changing the focus from the first selectable channel tile to a second selectable channel tile when the user input indicates a directional change of the focus (user can manipulate remote control until object is focused object available for selection [changing focus using direction change]; figure 2; paragraph [0007]); displaying the channel associated with the currently focused selectable channel tile when the user input indicated selection of the currently focused selectable channel tile (should the user manipulate, e.g., the enter key on the remote, the processor automatically causes the TV channel associated with the object to be tuned to and displayed [selection causes channel to be displayed]; figure 2; paragraph [0018]).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55405

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:
-***-Continued from Box V: Citations and Explanations-***-

As per claim 8, Baurmann discloses the method of claim 7. Baurmann further discloses wherein the step of displaying a list of two or more selectable channel tiles on a display further comprises: categorizing the list of two or more selectable channel tiles into two subsets of selectable channel tiles (plurality of favorite objects contain plurality of selectable channel tiles [first and second subset of selectable channel tiles]; figure 2; paragraph [0063]); defining the first subset from a list of favorite channels (favorite channel list displayed under TV channel favorite object [first subset favorite list]; figure 2; paragraph [0025-0032]) and defining the second subset based upon one or more of the list of favorite channels and a history of channels previously viewed by a user (favorite list and history list displayed under TV channel favorite object [second subset one or more of favorite list and history of channels]; figure 2, 3; paragraph [0020, 0024-0032, 0039]); displaying the two subsets of selectable channel tiles laterally on the display in a single row (list is displayed laterally [displayed laterally] in a single row; figure 2) and displaying a demarcation indicator between the two subsets of selectable channel tiles (focused channel separates plurality of unselected objects in lateral row [displaying demarcation indicator]; figure 2).

As per claim 9, Baurmann discloses the method of claim 7. Baurmann further discloses, wherein changing the focus to an adjacent selectable tile results in only a portion of the list of two or more selectable channel tiles being displayed on the screen (only portion of favorite object displayed at edges of lateral menu [only portion displayed]; figure 2).

As per claim 10, Baurmann discloses the method of claim 7. Baurmann further discloses wherein the user input source is a remote control comprising at least a directional pad and a selection button (remote with D-pad and selection button [remote]; figure 1), further wherein the user input indicating a directional change of the focus is indicated by the directional pad and the user input indicating a selection of the currently focused selectable channel tile is indicated by the selection button (user can manipulate remote control until object is focused object available for selection by selection button [changing focus using direction change and selecting with selection button]; figure 2; paragraph [0007]).

As per claim 11, Baurmann discloses a non-transitory, tangible computer readable storage medium (memory [memory]; figure 1; paragraph [0013]), encoded with processor readable instructions (processor for processing software [processor readable instructions]; paragraph [0013]) which cause a computer to perform a method of providing a user-interface for a television system, the instructions comprising: instructions to display a list of two or more selectable channel tiles on a display (favorite objects displayed in plurality of sub-groups on screen [two or more subsets]; figure 2; paragraph [0063]); instructions to display a focus on a first of the two or more selectable channel tiles (focused icon in response to a user command [focus]; figure 2; paragraph [0008, 0018, 0019]); instructions to receive a user input from a user input source (IR receiver for receiving wireless signal from hand-held remote [user input module]; paragraph [0014]); instructions to determine the type of user input received (processor determines the type of input received [determining input received]; figure 1, 3; paragraph [0014, 0017, 0018, 0022, 0024]); instructions to change the focus from the first selectable channel tile to a second selectable channel tile when the user input indicates a directional change of the focus (user can manipulate remote control until object is focused object available for selection by selection button [changing focus using direction change and selecting with selection button]; figure 2; paragraph [0007]); and instructions to display the channel associated with the currently focused selectable channel tile when the user input indicated selection of the currently focused selectable channel tile (should the user manipulate, e.g., the enter key on the remote, the processor automatically causes the TV channel associated with the object to be tuned to and displayed [selection causes channel to be displayed]; figure 2; paragraph [0018]).

As per claim 12, Baurmann discloses the non-transitory, tangible computer readable storage medium of claim 11. Baurmann further discloses wherein the list of two or more selectable channel tiles are displayed laterally on the display in a single row (list is displayed laterally [displayed laterally]; figure 2).

As per claim 13, Baurmann discloses the non-transitory, tangible computer readable storage medium of claim 11. Baurmann further discloses wherein changing the focus to an adjacent selectable tile results in only a portion of the list of two or more selectable channel tiles being displayed on the screen (only portion of favorite object displayed at edges of lateral menu [only portion displayed]; figure 2).

As per claim 14, Baurmann discloses the non-transitory, tangible computer readable storage medium of claim 12. Baurmann further discloses wherein the list of two or more selectable channel tiles contains at least two subsets of selectable channel tiles (plurality of favorite objects contain plurality of selectable channel tiles [first and second subset of selectable channel tiles]; figure 2; paragraph [0063]).

As per claim 15, Baurmann discloses the non-transitory, tangible computer readable storage medium of claim 14. Baurmann further discloses wherein the at least two subsets of selectable channel tiles contain a first and second subset of selectable channel tiles (plurality of favorite objects contain plurality of selectable channel tiles [first and second subset of selectable channel tiles]; figure 2; paragraph [0063]), the first subset containing a static list of selectable channel tiles (favorite channel list displayed under TV channel favorite object where list is specified by user and cannot be changed unless manually changed by user [first subset favorite list]; figure 2; paragraph [0025-0032]) and the second subset containing a dynamically chosen list of selectable tiles (favorite list and history list displayed under TV channel favorite object where history list continually changes based upon recently viewed channels [second subset one or more of favorite list and history of channels]; figure 2, 3; paragraph [0020, 0024-0032, 0039]).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55405

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
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-***-Continued from Previous Supplemental Box-***-

As per claim 16, Baurmann discloses the non-transitory, tangible computer readable storage medium of claim 15. Baurmann further discloses the instructions including: instructions to define the first subset from a list of favorite channels (favorite channel list displayed under TV channel favorite object [first subset favorite list]; figure 2; paragraph [0025-0032]) and; instructions to define the second subset by recommending channels based upon one or more of the list of favorite channels and a history of channels previously viewed by a user (favorite list and history list displayed under TV channel favorite object [second subset one or more of favorite list and history of channels]; figure 2, 3; paragraph [0020, 0024-0032, 0039]).

As per claim 17, Baurmann discloses the non-transitory, tangible computer readable storage medium of claim 11. Baurmann further discloses wherein the user input source is a remote control comprising at least a directional pad and a selection button (remote with D-pad and selection button [remote]; figure 1), and further wherein the user input indicating a directional change of the focus is indicated by the directional pad and the user input indicating a selection of the currently focused selectable channel tile is indicated by the selection button (user can manipulate remote control until object is focused object available for selection by selection button [changing focus using direction change and selecting with selection button]; figure 2; paragraph [0007]).

Claims 5, 6, 18, and 19 lack an inventive step under PCT Article 33(3) as being obvious over Baurmann in view of US 6,629,077 B1 to ARLING, P. et al. (hereinafter 'Arling').

As per claims 5 and 18, Baurmann discloses the system and non-transitory, tangible computer readable storage medium of claims 1 and 11, respectively. However, Baurmann fails to disclose further comprising a microphone, and wherein the user input source is a voice command. However, Arling discloses further comprising a microphone, and wherein the user input source is a voice command (voice command received by microphone within universal remote [microphone for receiving voice command]; abstract; figure 3 and 4; column 4, lines 1-10). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the system and non-transitory, tangible computer readable storage medium of Baurmann to include further comprising a microphone, and wherein the user input source is a voice command, as taught by Arling, because it is advantageous to have the ability to simplify remote input by utilizing voice commands.

As per claims 6 and 19, Baurmann discloses the system and non-transitory, tangible computer readable storage medium of claims 1 and 11, respectively. Baurmann fails to disclose wherein at least a portion of the screen is capable of receiving a touch input and the user input source is a touch input. However, Arling discloses wherein at least a portion of the screen is capable of receiving a touch input and the user input source is a touch input (touch screen input means [touch screen]; column 2, line 16; column 3, line 25). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the system and non-transitory, tangible computer readable storage medium of Baurmann to include wherein at least a portion of the screen is capable of receiving a touch input and the user input source is a touch input, as taught by Arling, because it is advantageous to have the ability to simplify remote input by utilizing touch screen and touch screen input commands.

Claim 20 lacks an inventive step under PCT Article 33(3) as being obvious over Baurmann in view of US 2009/0199237 A1 to WHITE, S. et al. (hereinafter 'White').

As per claim 20, Baurmann discloses the non-transitory, tangible computer readable storage medium of claim 16. However, Baurmann fails to disclose wherein at least one of the channel tiles in the second subset of channel tiles is associated with a channel that is currently playing a program containing recommended content. However, White discloses wherein at least one of the channel tiles in the second subset of channel tiles is associated with a channel that is currently playing a program containing recommended content (outputting program recommendations to user via display [recommended content tile]; figure 7; column 2, line 47). It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify the non-transitory, tangible computer readable storage medium of Baurmann to include wherein at least one of the channel tiles in the second subset of channel tiles is associated with a channel that is currently playing a program containing recommended content, as taught by White, because it is advantageous to automatically suggest personalized recommendations to television users for the purpose of increasing ease of use for television users.

Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

REINHARDT, Dean, N.
SHERIDAN ROSS P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)*	
26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-479-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055278	16 August 2013 (16.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Philippe Bécamel

e-mail: pt03.pct@wipo.int

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-479-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055278	International filing date *(day/month/year)* 16 August 2013 (16.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Philippe Bécamel e-mail: pt03.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: DEAN N. REINHARDT
SHERIDAN ROSS P.C.
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	11 MAR 2014
Applicant's or agent's file reference 6583-479-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055278	16 August 2013	17 August 2012

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 7/00 (2014.01)
USPC - 725/46

Applicant FLEXTRONICS AP, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	17 February 2014	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055278

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055278

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-21	YES
	Claims	None	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-21	NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-6, 10-13, 17, 18, 21 lack an inventive step under PCT Article 33(3) as being obvious over Angiolillo et al., hereinafter referred to as Angiolillo and in view of Hill et al., hereinafter referred to as Hill.

Regarding claims 1, 12, 17 Angiolillo discloses a non-transitory computer readable storage medium having stored thereon instructions that cause a processor to execute a method (the last application system 100 includes hardware [last application system is interpreted as comprising a processor] and software with tangible physical media capable of storing software [i.e. storage storing instructions], para.0014, 0015) of organizing applications on a television display (the last application system 100 displays one or more applications on display device 108 such as television, based on user inputs and request messages, para.0020, Fig.1), the method comprising the steps of:
[Claim 12] A television system (the network is a cable television network, para.0024; Fig.1 shows display device 108 [interpreted as television], Fig.1), comprising: a display (a display module 206 is configured to control display of last application information and/or various graphical user interfaces at the display device 108, para.0052); a memory (the system 100 includes memory for storing software, para.0015); a processor in communication with the memory and the display (the last application system 100 includes a display device 108, hardware [last application system is interpreted as comprising a processor] and software with tangible physical media capable of storing software [i.e. storage storing instructions for execution], para.0014, 0015), the processor operable to:
[Claim 17] A method for organizing applications on a television (the last application system 100 displays one or more applications on display device 108 such as television, based on user inputs and request messages, para.0020, Fig.1), the method comprising:
receiving input to activate an application center (the last application graphical user interface is displayed in response to a viewer request to view the last applications graphical user interface 400. The viewer may use the input device 112 to generate a request for the set top box 106 to cause the display of the last applications graphical user interface 400 at the display device 108 [receiving request to display applications interface is interpreted as receiving input to activate application center], para.0059, Fig.1, 4);
retrieving application usage information from a storage medium (the last applications system may output to the user one or more last applications based on usage data, para.0018; The priority module 212 may include software and hardware configured to prioritize one or more last applications based on usage data. Usage data may include data that indicates the amount of time a user viewed or accessed a last application, the amount of time that has past since a user has viewed or accessed a last application, the number of times a user has viewed or accessed a last application, and any other data that may be used to indicate last application usage, para.0041);
determining which applications to display based on the retrieved application usage information (the priority module 212 may select a finite number of last applications to be displayed in a scroll bar of last applications based on the usage data. Usage data may include data that indicates the amount of time a user viewed or accessed a last application, the amount of time that has past since a user has viewed or accessed a last application, the number of times a user has viewed or accessed a last application, and any other data that may be used to indicate last application usage, para.0041, 0042); and
displaying on the television display one or more applications in the application center (The viewer may use the input device 112 to select the "Last Applications Scroll Bar" request field 402 or the "Last Applications Menu" request field 406. When the user selects "Last Applications Scroll Bar", the viewer is displayed and allowed to access and view a finite number of last applications stored based on priority determined by the priority module 212. The viewer may use the input device 112 to select a desired last application by moving the indicator 606 next to the last application of interest, para.0060, 0065, 0066, Fig.4, 6; the priority module 212 may select a finite number of last applications to be displayed in a scroll bar of last applications based on the usage, para.0042).
[Claim 12] wherein the application usage information comprises at least one of a last used application, a second last used application, a most used application, a second most used application, a newest application, and a second newest application (one or more last applications are displayed to user based on the usage data [thus usage information is interpreted as comprising information of last used application]. Usage data may include data that indicates the amount of time a user viewed or accessed a last application, the number of times a user has viewed or accessed a last application, and any other data that may be used to indicate last application usage [i.e. last used application], para.0041, 0042).
Angiolillo lacks the teaching of displaying application icons in the application center.
Hill discloses an internet enabled TV listing various content genres (Abstract) and teaches application icons in the application center (Fig.2 shows various application icons such as a photograph icon 34, a music icon 36, a video icon 38, a TV icon 40, a game icon 42, and a network icon 44 presented on cross media bar (XMB) 32 [cross media bar is interpreted as the application center on which application icons are displayed], para.0023, 0024, Fig.2).
It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Hill for displaying application icons in application center in the invention of Angiolillo.
The motivation would have been to organize and present the applications to users in the form of icons (para.0023, Hill).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055278

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
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Regarding claim 2, Angiolillo teaches that the application usage information comprises at least one of a last used application; a second last used application; a most used application; a second most used application; a newest application; and a second newest application (one or more last applications are displayed to user based on the usage data [thus usage information is interpreted as comprising information of last used application]. Usage data may include data that indicates the amount of time a user viewed or accessed a last application, the number of times a user has viewed or accessed a last application, and any other data that may be used to indicate last application usage [i.e. last used application], para.0041, 0042).

Regarding claim 3, Angiolillo teaches receiving input to launch an application selected from the one or more applications displayed in the application center [interface] (When the user selects "Last Applications Scroll Bar", the viewer is displayed and allowed to access and view a finite number of last applications stored based on priority determined by the priority module 212 [i.e. one or more applications displayed in the application center]. The viewer may use the input device 112 to select a desired last application by moving the indicator 606 next to the last application of interest and the viewer may press an input key on the input device 112 to generate a select message requesting that the set top box 106 access and display the last application associated with the request [i.e. receiving input to access or launch selected application from the one or more applications], para.0065, 0066, Fig.6); and launching the application selected (A user can access and view one or more last applications outputted by the last applications system [user accessing and view the last application is interpreted as last application system launching the user selected application], para.0019; the display module 206 receive instructions from the input device 112, and retrieves and tune to a particular last application based on the received instructions, and causes display of the particular last application at the display device 108 [i.e. launching selected application], para.0052).
Angiolillo lacks the teaching of application icons displayed in the application center.
Hill teaches application icons displayed in the application center (Fig.2 shows various application icons such as a photograph icon 34, a music icon 36, a video icon 38, a TV icon 40, a game icon 42, and a network icon 44 presented on cross media bar (XMB) 32 [cross media bar is interpreted as the application center on which application icons are displayed], para.0023, 0024, Fig.2).
It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Hill for displaying application icons in application center in the invention of Angiolillo.
The motivation would have been to organize and present the applications to users in the form of icons (para.0023, Hill).

Regarding claims 4, 13, 18 Angiolillo teaches receiving input for information about an application (upon receiving a request message from the user via the input device [i.e. receiving input], the update data associated with one or more last applications is displayed at the display device 108. Update data includes video data, audio data, text data, and/or other types of visual and/or audible information [update data is interpreted as the information about the application], para.0022) selected from the one or more applications displayed in the application center [interface] (The viewer may use the input device 112 to select a desired last application by moving the indicator 606 next to the last application of interest and the viewer may press an input key on the input device 112 to generate a select message requesting that the set top box 106 access and display the last application associated with the request [i.e. selecting application from the one or more applications in the last applications scroll bar GUI wherein last applications scroll bar GUI is interpreted as the application center], para.0066, Fig.6); retrieving application information about the selected application (upon receiving a request message from the user via the input device, the update data associated with one or more last applications is accessed and retrieved from the server 102 and displayed at the display device 108. Update data includes video data, audio data, text data, and/or other types of visual and/or audible information, para.0022); and displaying on the television display the retrieved application information (The display module 206 may include software and/or hardware configured to control display of last application information such as visual and audible representation of one or more last applications, para.0052) in an information panel (Fig.6 shows a rotatable scroll bar 602 displaying information about last applications [rotatable scroll bar is interpreted as the information panel displaying application information such as name and category], para.0066, Fig.6).
Angiolillo lacks the teaching of application icons displayed in the application center.
Hill teaches application icons displayed in the application center (Fig.2 shows various application icons such as a photograph icon 34, a music icon 36, a video icon 38, a TV icon 40, a game icon 42, and a network icon 44 presented on cross media bar (XMB) 32 [cross media bar is interpreted as the application center on which application icons are displayed], para.0023, 0024, Fig.2).
It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Hill for displaying application icons in application center in the invention of Angiolillo.
The motivation would have been to organize and present the applications to users in the form of icons (para.0023, Hill).

Regarding claims 5, 21 Angiolillo teaches receiving input to launch the application displayed in the information panel (Fig.6 shows a rotatable scroll bar 602 displaying information about last applications [rotatable scroll bar is interpreted as the information panel displaying application information such as name and category]. The viewer may use the input device 112 to select a desired last application by moving the indicator 606 next to the last application of interest and the viewer may press an input key on the input device 112 to generate a select message requesting that the set top box 106 access and display the last application associated with the request [i.e. receiving input to access or launch selected application from the one or more applications], para.0066, Fig.6); and launching the application (A user can access and view one or more last applications outputted by the last applications system [user accessing and view the last application is interpreted as last application system launching the user selected application], para.0019; the display module 206 receive instructions from the input device 112, and retrieves and tune to a particular last application based on the received instructions, and causes display of the particular last application at the display device 108 [i.e. launching selected application], para.0052).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055278

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claim 6, Angiolillo teaches that the application information comprises at least one of a thumbnail; a name; a description; a version; a revision date; a developer name; a category name; a user rating; and a content rating (Fig.6 shows a rotatable scroll bar 602 displaying information about last applications including name and category, para.0066, Fig.6; the last applications scroll bar graphical user interface 600 may display one or more images of one or more last applications. For example, the last applications scroll bar graphical user interface 600 may display the last frame viewed of a VOD Movie, the image of a Chat Session, the current image of a TV Channel broadcast program, etc. [i.e. displaying thumbnail], para.0067).

Regarding claim 10, Angiolillo lacks the teaching wherein if the selected application icon is a widget icon, retrieving widget information from a storage medium; determining which widgets to display based on the retrieved widget information; and displaying on the television display one or more widgets in a widget panel.
Angiolillo however teaches determining which applications to display based on the retrieved information (the priority module 212 may select a finite number of last applications to be displayed in a scroll bar of last applications based on the usage data. Usage data may include data that indicates the amount of time a user viewed or accessed a last application, the amount of time that has past since a user has viewed or accessed a last application, the number of times a user has viewed or accessed a last application, and any other data that may be used to indicate last application usage, para.0041, 0042); and displaying on the television display one or more applications in a panel (Fig.6 shows a rotatable scroll bar 602 [rotatable scroll bar is the panel] displaying last applications, para.0066, Fig.6).
Hill teaches application as widget icons (Widgets includes application such as clocks, event countdowns, auction-tickers, stock market tickers, flight arrival information, daily weather etc. Widget icon can be selected to display the selected widget on the display, para.0035, Fig.5); retrieving widget information (by hovering the cursor over weather widget icon, current weather information is provided by weather widget through the network interface, para.0041) from a storage medium (TV processor 18 can access one or more storage media 20 for retrieving information, para.0021, Fig.1); and displaying one or more widgets on television display (one or more widget icons are displayed on the display, para.0035, Fig.5).
It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Hill for incorporating widget icons in the invention of Angiolillo.
The motivation would have been for representing applications in a different form such as widgets as per user desire.

Regarding claim 11, Angiolillo teaches identifying a user associated with the request (a request module 210 receives one or more request messages to display and access one or more last applications. The system identifies each requesting user, as each user of the household has separate login identification and password, para.0050, 0038);
wherein the retrieved application usage information is associated with the identified user (each user of the household may be associated with a separate last application user profile indicating one or more last applications associated with that user. Once the set top box 106 receives login information and password associated with a particular user, the set top box 106 can store and retrieve the last application data associated with the user separate from other last application data associated with other users, para.0038).

Claims 7-9, 14-16, 19, 20 lack an inventive step under PCT Article 33(3) as being obvious over Angiolillo in view of Hill and in view of De Heer et al., hereinafter referred to as De Heer.

Regarding claims 7, 14, 19 Angiolillo teaches the information panel including a first list of one or more applications (Fig.6 shows a rotatable scroll bar 602 displaying information about last applications [rotatable scroll bar is interpreted as the information panel displaying list of applications with information such as name and category], para.0066, Fig.6) but lacks the teaching of recommended applications.
De Heer discloses generating video-on-demand recommendations based on television history data (Abstract) and teaches recommending applications (one or more lists of recommended VOD titles are displayed to user, col.6, lines 14-22, Fig.3, 4).
It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of De Heer for displaying recommendations in the invention of Angiolillo.
The motivation would have been for automatically generating recommendation to user based on user history (col.1, lines 46-56, De Heer).

Regarding claim 8, Angiolillo lacks the teaching of receiving a selection of a recommended application displayed in the first list; and connecting to an application store to purchase or rent the selected recommended application.
De Heer teaches of receiving a selection of a recommended application displayed in the first list (one or more lists of recommended VOD titles are displayed to user. The user selects one of the displayed recommended titles (e.g., "8 Mile") and a description of the VOD content is displayed in the description area 418 of the user interface, col.6, lines 14-22, 47-50, Fig.3, 4); and connecting to an application store to purchase or rent the selected recommended application (the user selects the purchase button 420 and a VOD purchase process is initiated for the title that is currently selected. Upon selecting the purchase button, VOD purchase application 220 is launched [launching application is interpreted as connecting to application store for purchasing recommendation], col.6, lines 51-55, Fig.4, 5, 6).
It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of De Heer for selecting and purchasing displayed recommendation in the invention of Angiolillo.
The motivation would have been allowing users to view and access recommended programs.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055278

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claims 9, 15, 20 Angiolillo lacks the teaching of receiving input to list more recommended applications; and displaying on the television display a second list of one or more recommended applications in a recommended application panel.
De Heer teaches receiving input to list recommended applications (Fig.3 shows a user interface 302 through which user may request VOD recommendations. The user can select the VOD recommendations button 306 to cause one or more lists of recommended titles to be displayed, col5, lines 62-64, col.6, lines 14-16, Fig.3); and displaying on the television a list of one or more recommended applications in a recommended application panel (The VOD recommendations button 306, when selected, causes one or more lists of recommended VOD titles to be displayed. a viewer may be presented with three types of recommendations, represented by the recommendations tab 402, the critics' picks tab 404, and the last chance tab 406, col.6, lines 14-16, 26-28, Fig.4).
Furthermore, requesting more recommendations was a well-known practice in the art and the specifics would have been a matter of design choice.
It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of De Heer for requesting and listing requested recommendations and providing more recommendations in the invention of Angiolillo.
The motivation would have been for allowing users to view and access more recommendations that can be purchased.

Regarding claim 16, Angiolillo teaches receiving input to launch the application displayed in the information panel (Fig.6 shows a rotatable scroll bar 602 displaying information about last applications [rotatable scroll bar is interpreted as the information panel displaying application information such as name and category]. The viewer may use the input device 112 to select a desired last application by moving the indicator 606 next to the last application of interest and the viewer may press an input key on the input device 112 to generate a select message requesting that the set top box 106 access and display the last application associated with the request [i.e. receiving input to access or launch selected application from the one or more applications], para.0066, Fig.6); and launching the selected application (A user can access and view one or more last applications outputted by the last applications system [user accessing and view the last application is interpreted as last application system launching the user selected application], para.0019; the display module 206 receive instructions from the input device 112, and retrieves and tune to a particular last application based on the received instructions, and causes display of the particular last application at the display device 108 [i.e. launching selected application], para.0052).

Claims 1-21 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

GRUBER, Kristen
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-481-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055509	19 August 2013 (19.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Lingfei Bai

e-mail: pt02.pct@wipo.int

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-481-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055509	International filing date *(day/month/year)* 19 August 2013 (19.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☒	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Lingfei Bai e-mail: pt02.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Kristen Gruber
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, Colorado 80202
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	08 NOV 2013

Applicant's or agent's file reference	FOR FURTHER ACTION
6583-481-PCT	See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US13/55509	19 August 2013 (19.08.2013)	17 August 2012 (17.08.2012)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 5/445, 71/73; G06F 13/14 (2013.01)
USPC - 725/43, 45, 47

Applicant Flextronics AP, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☒ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	30 October 2013 (30.10.2013)	Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
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Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55509

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	2, 3, 8, 10, 12, 13, 18, 20	YES
	Claims	1, 4-7, 9, 11, 14-17, 19, 21, 22	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-22	NO
Industrial applicability (IA)	Claims	1-22	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1, 4-7, 9, 11, 14-17, 19, 21 and 22 lack novelty under PCT Article 33(2) as being anticipated by US 7,900,228 B2 to Stark et al. (hereinafter 'Stark').

As per claims 1, 11 and 21, Stark discloses a method of displaying content on a television, a non-transitory computer readable information storage medium having stored thereon instructions that cause a computing system to execute a method of displaying content on a television, and a system for displaying content on a television (a graphical user interface ("GUI") for a content management system is provided, such as to present television program information and/or information associated with other forms of multimedia content; abstract; figure 1; column 2, lines 41-50; column 5, lines 48-64), comprising: receiving an indication associated with a selection by a user (one or more users may make various types of selections that affect the information being displayed; abstract; column 2, lines 51-56); determining, based on the received indication, a global panel to display via the television (in some situations various techniques are employed to maintain a state of the GUI (global panel) that is focused on one or more current selections as changes occur, such as to coordinate information display between multiple distinct information panes or other view areas of the GUI, to alter the information to be displayed in the GUI based on a selected piece of content, and/or to enable identification of a selected piece of content from within a large number of pieces of content; abstract; column 2, lines 51-61); retrieving from memory, a first content information for display in the global panel (the computing system 300 interacts with the media center 350 in a variety of ways (e.g., via a direct connection, as part of local network 385, or as part of another network, not shown), including to receive information about current and/or future television programming related content 360a and/or other content 360a; in the illustrated embodiment, the computing system includes a CPU 305 or other processor(s), various I/O devices 310, storage 320, and memory 330, and the illustrated I/O devices include a display 311, a network connection 312, a computer-readable media drive 313, and other I/O devices 315; an embodiment of the CM system 335 is executing in memory 330; the CM system provides information about the available content to one or more users (e.g., one or more of the consumers in the home environment), such as via a GUI (global panel) that is displayed on the display device 311 and/or on one or more of the content presentation devices 370 or 380 or other computing systems 390; figure 1; column 6, lines 3-38); and displaying, via the television, the retrieved content information in the specified global panel (the home environment includes an STB or other media center 350 receiving external content 360a that is available to one or more consumers in the home environment 395, such as television programming-related content 360a for presentation on a television 370; in the illustrated embodiment, the CM system does not itself present the external content 360a to the user(s), instead interacting with the media center 350 to control the display of the content to the user via the TV and/or one or more of the other content presentation devices; figure 1; column 2, lines 41-64; column 5, lines 53-58; column 6, lines 31-38, 58-62).

As per claims 4 and 14, Stark discloses the method of claim 1 and the non-transitory computer-readable medium of claim 11, further comprising: receiving a second indication associated with a selection by a user (the primary content-type navigation tab for "Television" 110a (the first indication) continues to be currently selected, the secondary content type-specific navigation tab for "Live TV" 115a (second indication) continues to be currently selected; figure 3; column 10, lines 11-24); determining, based on the second indication, a source of content information to be displayed in the global panel (click the Guide View button to display a TV Guide-like grid of program bubbles; click the arrow next to the Guide View button to display the menu; figure 3; column 42, lines 15-35) based; retrieving at least a portion of content information from the determined source (menu selections are small, medium, or large; if you select Small, the program bubbles in the TV grid will show only the program title; by selecting Medium, the program bubbles expand to display information about the programs; by selecting Large, the program bubbles expand to display the maximum amount of information about the programs; figure 3; column 42, lines 15-40); and displaying, via the television, the content information associated with the determined source (the GUI is displaying program listing information for live TV in a view area 140; figures 2, 3; column 9, lines 34-37; column 10, lines 11-24).

As per claim 5, Stark discloses the method of claim 1, wherein the global panel comprises information from at least two different panel types (in some situations, the GUI (global panel) displays various types of information about multiple pieces of content that are currently appropriate for display, such as based on those pieces of content having presentation times or other associated times that correspond to a currently selected time period and/or based on those pieces of content having other appropriate characteristics; as one example, in at least some embodiments the metadata information displayed in a single view area for multiple pieces of content may be displayed using different types of views; abstract; column 2, lines 65-67 to column 3, lines 1-66).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
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Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

Defect: Claims Defective:

Claims 4 and 14 are objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: the word "based" in line 4 of claim 4, and line 5 of claim 14, should be stricken.

Claim 16 is objected to under PCT Rule 66.2(a)(iii) as containing the following defect in the form or contents thereof: claim 16 should depend on claim 11 instead of claim 1.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55509

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:
-***-Continued from Box V: Citations and Explanations-***-

As per claims 6, 16 and 22, Stark discloses the method of claim 1, the non-transitory computer-readable medium of claim 11, and the system of claim 21, further comprising: identifying at least one of a content source and a content information currently being displayed via a television (in at least some embodiments the CM system GUI displays information such that a state of the GUI is focused based on one or more current selections; for example, in some embodiments one or more pieces of content may be currently selected (e.g., based on one or more prior selections by a user), and if so, at least portions of the GUI may be focused to reflect those currently selected pieces of content, such as by simultaneously displaying various types of information related to the currently selected pieces of content in a coordinated manner in multiple distinct display areas of the GUI; column 4, lines 5-24); selecting a panel type based on the identified at least one of content source and content information currently being displayed via the television (in addition, when such information in one or more such display areas of the GUI changes, the changed information may also be displayed in such a manner as to include or emphasize a currently selected piece of content on which the GUI state is focused (e.g., when possible, such as when the changed information includes information for the currently selected piece of content, or instead always, such as to cause information for the currently selected piece of content to be included in the changed information); column 4, lines 53-61); retrieving, from memory, content information based on the selected panel type (an embodiment of the CM system 335 is executing in memory 330; the CM system may, for example, provide some or all of the stored content metadata 322 to the users and allow the user to manipulate the content in a variety of ways (e.g., to select content for current presentation, for future recording, etc.), as well as in some embodiments maintaining a state of the GUI as displayed information changes; column 6, lines 31-43); and displaying, via the television, the retrieved content information in the global panel based on the selected panel type (the CM system displays information about the retrieved content via a GUI (global panel) on a display device 370 (television), content presentation devices 380, or computing system 390; column 5, lines 48-64; column 6, lines 31-67 to column 7, line 1).

As per claims 7 and 17, Stark discloses the method of claim 6 and the non-transitory computer-readable medium of claim 16, further comprising: receiving a second indication associated with a selection by a user (the primary content-type navigation tab for "Television" 110a (the first indication) continues to be currently selected, the secondary content type-specific navigation tab for "Live TV" 115a (second indication) continues to be currently selected; figure 3; column 10, lines 11-24); selecting a panel type based on the second indication (the user clicks the LIVE TV tab 115a (panel type); figure 3; column 10, lines 21-23; column 42, lines 15-30); retrieving, from memory, content information based on the selected panel type and the second indication (an embodiment of the CM system is executing in memory 330; the CM system may, for example, provide some or all of the stored content metadata 322 to the users and allow the user to manipulate the content in a variety of ways (e.g., to select content for current presentation, for future recording, etc.), as well as in some embodiments maintaining a state of the GUI as displayed information changes; multimedia content metadata is received, such as if the computing system 300 receives EPG metadata information (i.e., as part of television programming-related content 360a) from a head-end and stores the information as content metadata 322 in the storage unit 320; column 6, lines 31-43; column 24, lines 31-36); and displaying, via the television, the retrieved content information in the global panel (when the user clicks the LIVE TV tab, the Navigation tabs Guide View screen appears and the GUI is rendered on a suitable display device; figure 3; column 24, lines 36-40; column 42, lines 15-30).

As per claims 9 and 19, Stark discloses the method of claim 7 and the non-transitory computer-readable medium of claim 17, wherein the retrieved content information comprises information associated with content information recently viewed (the information area 165 includes information about the current status of selected content, including content being currently recorded (if any), recently recorded programs, and upcoming scheduled recordings; figure 16; column 16, lines 60-67 to column 17, lines 1-6).

As per claim 15, Stark discloses the non-transitory computer-readable medium of claim 11, further comprising retrieving from memory a second content information for display in the global panel (receiving metadata information for multiple television programs (first and second content information); identifying a first distinct group of the multiple television programs for a graphical user interface such that received meta data information for the first distinct group of television programs will be included in the graphical user interface, the first distinct group including multiple television programs that satisfy a search request of television programs and that are identified based at least in part on a corresponding first category of television programs; claim 1); and displaying, via the television, the retrieved first content information and the retrieved second content information in the specified global panel (displaying to a user of the computing device a graphical window that includes the graphical user interface, the graphical user interface having a state based at least in part on the identified group, the displayed graphical user interface having: multiple distinct display areas including a first display area and a second display area, such that metadata information for a first portion of the identified first distinct group of television programs is displayed in the first display area and metadata information for a selected television program is displayable in the second display area; claim 1).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55509

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:
-***-Continued from Previous Supplemental Box-***-

Claims 2, 3, 12 and 13 lack an inventive step under PCT Article 33(3) as being obvious over Stark in view of US 8,166,511 B2 (GRIGGS).

As per claims 2 and 12, Stark discloses the method of claim 1 and the non-transitory computer-readable medium of claim 11. Stark does not disclose further comprising: identifying a user associated with the received indication; retrieving one or more settings associated with the identified user; retrieving, from memory, content information associated with the identified user; and displaying, via the television, the retrieved content information in the specified global panel. Griggs does disclose further comprising: identifying a user associated with the received indication (according to a preferred embodiment of the instant invention, an authorized user may access their account on the system server by a log-in process, whereby the user provides a unique user identification to identify themselves as an authorized user to the system; column 2, lines 50-54; claim 1); retrieving one or more settings associated with the identified user (once into the account, the user can preferably modify user preferences and preferably view other account information; column 2, lines 54-56; claim 1); retrieving, from memory, content information associated with the identified user (when a request is submitted from the control device 12, the display logic 16 creates a graphical display frame in its memory with the appropriate content; the display frame is sent to the streaming media mixer logic 13; figure 9; column 9, lines 62-65); and displaying, via the television, the retrieved content information in the specified global panel (the streaming media mixer logic 13 compresses the new combined display frame and sends the combine display frame to the viewing device 25; figure 9; column 9, lines 65-67 to column 10, lines 1-9). It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the system of Stark with Griggs's teaching, because by doing so, Stark's content management system would have provided for programming that is tailored to individual consumers needs, and provide the flexibility for consumers to quickly change the scope of services and/or program availabilities.

As per claims 3 and 13, Stark discloses the method of claim 1 and the non-transitory computer-readable medium of claim 11. Stark does not disclose further comprising: identifying a user associated with the received indication; retrieving, from memory, one or more settings associated with the identified user; retrieving, from memory, content information associated with the identified user and the one or more settings associated with the user; and displaying, via the television, the retrieved content information in the specified global panel. Griggs does disclose further comprising: identifying a user associated with the received indication (according to a preferred embodiment of the instant invention, an authorized user may access their account on the system server by a log-in process, whereby the user provides a unique user identification to identify themselves as an authorized user to the system; column 2, lines 50-54; claim 1); retrieving, from memory, one or more settings associated with the identified user (once into the account, the user can preferably modify user preferences and preferably view other account information; column 2, lines 54-56; claim 1); retrieving, from memory, content information associated with the identified user and the one or more settings associated with the user (granting access to the user account via the Internet; selecting the customized programming schedule from a plurality of customized programming schedules based on a determination that the separate device corresponds to the device indicator; transmitting, to the separate device, display data for displaying the customized programming schedule; column 9, lines 62-67 to column 10, lines 1-9; claim 1); and displaying, via the television, the retrieved content information in the specified global panel (the streaming media mixer logic 13 compresses the new combined display frame and sends the combine display frame to the viewing device 25; receiving, from the separate device, a selection signal for selecting one of the plurality of digital video programs; figure 9; column 9, lines 65-67 to column 10, lines 1-9; claim 1). It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the system of Stark with Griggs's teaching, because by doing so, Stark's content management system would have provided for programming that is tailored to individual consumers needs, and provide the flexibility for consumers to quickly change the scope of services and/or program availabilities.

Claims 8, 10, 18 and 20 lack an inventive step under PCT Article 33(3) as being obvious over Stark in view of US 7,685,520 B2 to Rashkovskiy et al. (hereinafter 'Rashkovskiy').

As per claims 8 and 18, Stark discloses the method of claim 7 and the non-transitory computer-readable medium of claim 17. Stark does not disclose wherein the retrieved content information comprises information associated with content information marked as favorite. Rashkovskiy does disclose wherein the retrieved content information comprises information associated with content information marked as favorite (a graphical user interface 10 for implementing an electronic content guide includes a plurality of selectable category icons 12 represented as "virtual" file folders; each category icon 12 may be predefined or may be user definable; category icon 12a is provided for favorite programs; figure 1; column 1, lines 63-67 to column 2, line 1). It would have been obvious to a person of ordinary skill in the art at the time of the invention, to modify Stark's system and method with Rashkovskiy's user interface, because by doing so, Stark's platform would have been more user-friendly by enabling viewers to save a specific channel by marking it as a favorite.

As per claims 10 and 20, Stark discloses the method of claim 7 and the non-transitory computer-readable medium of claim 17. Stark does not disclose wherein the retrieved content information comprises information associated with content information marked as favorite and further comprises information associated with content information recently viewed. Rashkovskiy does disclose wherein the retrieved content information comprises information associated with content information marked as favorite and further comprises information associated with content information recently viewed (a graphical user interface 10 for implementing an electronic content guide includes a plurality of selectable category icons 12 represented as "virtual" file folders; each category icon 12 may be predefined or may be user definable; category icon 12a is provided for favorite programs; a plurality of programs 22 are listed as entries in two columns 20a and 20b; these programs 22 are either currently in progress or just beginning, in keeping with the selection of currently available programs, through the icon 12c, and favorites among currently available programs through the selection of the icon 14; thus, the X-Files program 22, runs from 7:00 to 9:00 as indicated by the indicia 18 and 19; the bar indicia 19 graphically indicates how much of the program has already been displayed or broadcast in the past using differently color indicia 18 and 19; figure 1; column 1, lines 63-67 to column 2, line 1; column 2, lines 53-63). It would have been obvious to a person of ordinary skill in the art at the time of the invention, to modify Stark's system and method with Rashkovskiy's user interface, because by doing so, Stark's platform would have been more user-friendly by enabling viewers to save a specific channel by marking it as a favorite, and a user would have been able to determine the program timing to determine how much of the program is left to view, and how much was missed.

Claims 1-22 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

PATENT COOPERATION TREATY

ADVANCE E-MAIL

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:

LIU, SHEN & ASSOCIATES
10th Floor, Building 1, 10 Caihefang Road, Haidian District
Beijing 100080
CHINE

Date of mailing *(day/month/year)* 26 February 2015 (26.02.2015)		
Applicant's or agent's file reference F13W4862	**IMPORTANT NOTICE**	
International application No. PCT/CN2013/081639	International filing date *(day/month/year)* 16 August 2013 (16.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
Applicant FLEXTRONICS AP, LLC et al		

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Lingfei Bai
Facsimile No. +41 22 338 82 70	e-mail: pt02.pct@wipo.int

Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference F13W4862	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/CN2013/081639	International filing date *(day/month/year)* 16 August 2013 (16.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Lingfei Bai e-mail: pt02.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

100101

A0601,Huibin Building No.8,Beichen Dong(East) Street Chao Yang District Beijing,China

LIU，SHEN&ASSOCIATES

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43 *bis*.1)

Date of mailing *(day/month/year)*	28 Nov. 2013 (28.11.2013)
Applicant's or agent's file reference: F13W4862	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/CN2013/081639	16 Aug. 2013(16.08.2013)	17 Aug. 2012(17.08.2012)

International Patent Classification (IPC) or both national classification and IPC

H04N 5/445 (2011.01) i

Applicant

FLEXTRONICS AP, LLC et al.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No.II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No.VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No.VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of **3** months from the date of mailing of Form PCT/ISA/220 or before the expiration of **22** months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/CN	Date of completion of this opinion	Authorized officer
The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451	14 Nov. 2013 (14.11.2013)	GAO,Jing Telephone No. (86-10)010-62413457

Form PCT/ISA/237(cover sheet)(July 2009)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CN2013/081639

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.
   ☐ a translation of the international application into _____ , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91(Rule 43bis.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application ,this opinion has been established on the basis of :

   a. a sequence listing filed or furnished
      ☐ on paper
      ☐ in electronic form

   b. time of filing or furnishing
      ☐ contained in the applicant as filed
      ☐ filed together with the application in electronic form
      ☐ furnished subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/CN2013/081639

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement:

Novelty (N)	Claims	1-20	YES
	Claims	None	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO

2. Citations and explanations

Reference is made to the following documents:
D1: CN 101540850 A (SHENZHEN TCL NEW TECHNOLOGY LTD.) 23 Sep. 2009 (23.09.2009)
D2: CN 101567992 A (ALI CORP.) 28 Oct. 2009 (28.10.2009)

I. Novelty and Inventive step

1.1 Independent claim 1 relates to a method. D1 (see page 3, lines 4-9, lines 14-15, lines 20-21, page 4, lines 1-4, page 5, lines 19-22 in the description, figures 1, 2, 5) is regarded as the closest prior art, and discloses a method for selecting media source as follows.

The electronic device 100 comprises at least one receptor 102 (e.g., a cable inlet, device inlet, or an antenna), a tuner 104, a processor 106, a memory 108, a display 110, a controller 112 (e.g., remote control), and various peripheral inputs 114,116, and 118. The memory 108 may comprise a tangible machine-readable medium adapted to hold machine-readable computer code that causes the processor 106 to perform an exemplary method in accordance with present embodiments. For example, the memory 108 and the processor 106 may cooperate to operate as a control system that provides an on-screen selection interface (corresponding to "reminder") in accordance with present embodiments (see page 3, lines 4-9 in the description and figure 1 of D1).

This UI or on-screen selection interface may be referred to as a tab-based content source selection system (TCSSS) (see page 3, lines 14-15 in the description of D1).

An interpreted "content" command from a remote control may initiate or activate the TCSSS on a television (corresponding to "receiving a reminder presentation input at the intelligent TV") (see page 3, lines 20-21 in the description of D1).

The TCSSS may provide several graphic items that appear to be overlapping graphical shapes (e.g., columns or tabs) on the television display 110. For example, FIG. 2 illustrates a screen 200 (corresponding to "the first portion of the display") of a television display (e.g., the display 110) that includes a menu 202 positioned on an edge of the display (corresponding to "the second portion of the display, wherein the second portion of the display at least partially overlaps the first portion"). The menu 202 includes four overlapping columns in accordance with present embodiments (see page 4, lines 1-4 in the description and figure 2 of D1).

FIG. 5 is an illustration of the TCSSS when the fourth column 210 is active. As set forth above, the fourth column 210 displays user-selected channels referred to as "favorites" when it is active. The fourth column 210 of the illustrated embodiment enables users to define it to include any source of input and any channel on a single menu tab (corresponding to "the reminder presentation dialog includes information relative to a specific program"). This will enable a user to conveniently switch between favorite channels and favorite sources of input within a single menu tab or column (see page 5, lines 19-22 in the description and figure 5 of D1).

D1 does not disclose the following features of claim 1: TV content presented to a first portion of the display. Thus D1 does not disclose all the features of claim 1 and the subject matter of claim 1 is new in the sense of PCT Article 33(2).

However, D2 (see page 5, lines 27-30 in the description) provides a method for displaying assistance data and discloses the following features: when digital channel content is broadcast, assistance information is displayed to a portion the screen 400. That is, D2 gives the teach to display TV content in a first portion and to display reminding assistance information in a second portion which overlaps the first portion. Thus, it is obvious for a person skilled in the art to apply the teaching of the D2 to D1 and arrive at this solution. Therefore the solution of claim 1 does not involve an inventive step, and does not meet the criteria set out in PCT Article 33(3).

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**

Continuation of : Box No. V Citations and explanations

I.2 Independent claim 13 relates to a tangible, non-transitory computer readable medium having instructions stored thereon that, when executed by a processor, performed the method as the same as claim 1. D1 (see page 3, lines 7-8 in the description) also discloses that: The memory 108 may comprise a tangible machine-readable medium adapted to hold machine-readable computer code that causes the processor 106 to perform an exemplary method in accordance with present embodiments. Thus, referring to the explanations on claim 1, claim 13 is also new in the sense of PCT Article 33(2), and does not involve an inventive step in the sense of PCT Article 33(3).

I.3 Since the subject matter of claims 1, 13 involves novelty, the subject matter of their dependent claims 2-12, 14-19 also involves novelty in the sense of PCT Article 33(2).

Additional features of claims 2, 14 are also disclosed by D1(see page 5, lines 19-22 in the description and figure 5). Thus the subject matter of claims 2, 14 does not involve an inventive step in the sense of PCT Article 33(3).

Additional features of claims 3-12, 15-19 only relate to normal implementation measures or minor design details in the art. The features thus, either alone or in combination, do not seem to add anything of inventive significance to any of claims 3-12, 15-19, and they do not meet the criteria set out in PCT Article 33(3).

I.4 Independent claim 20 relates to a system. D1 (see page 3, lines 4-9, lines 14-15, lines 20-21, page 4, lines 1-4, page 5, lines 19-22 in the description, figure 1, 2, 5) is regarded as the closest prior art, and discloses a system for selecting media source as follows.

The electronic device 100 comprises at least one receptor 102 (e.g., a cable inlet, device inlet, or an antenna), a tuner 104, a processor 106, a memory 108, a display 110, a controller 112 (e.g., remote control), and various peripheral inputs 114,116, and 118. The memory 108 may comprise a tangible machine-readable medium adapted to hold machine-readable computer code that causes the processor 106 to perform an exemplary method in accordance with present embodiments. For example, the memory 108 and the processor 106 may cooperate to operate as a control system that provides an on-screen selection interface (corresponding to "reminder") in accordance with present embodiments (see page 3, lines 4-9 in the description and figure 1 of D1).

This UI or on-screen selection interface may be referred to as a tab-based content source selection system (TCSSS) (see page 3, lines 14-15 in the description of D1).

An interpreted "content" command from a remote control may initiate or activate the TCSSS on a television (corresponding to "receiving a reminder presentation input at the intelligent TV") (see page 3, lines 20-21 in the description of D1).

The TCSSS may provide several graphic items that appear to be overlapping graphical shapes (e.g., columns or tabs) on the television display 110. For example, FIG. 2 illustrates a screen 200 (corresponding to "the first portion of the display") of a television display (e.g., the display 110) that includes a menu 202 positioned on an edge of the display (corresponding to "the second portion of the display, wherein the second portion of the display at least partially overlaps the first portion"). The menu 202 includes four overlapping columns in accordance with present embodiments (see page 4, lines 1-4 in the description and figure 2 of D1).

FIG. 5 is an illustration of the TCSSS when the fourth column 210 is active. As set forth above, the fourth column 210 displays user-selected channels referred to as "favorites" when it is active. The fourth column 210 of the illustrated embodiment enables users to define it to include any source of input and any channel on a single menu tab (corresponding to "the reminder presentation dialog includes information relative to a specific program"). This will enable a user to conveniently switch between favorite channels and favorite sources of input within a single menu tab or column (see page 5, lines 19-22 in the description and figure 5 of D1).

D1 does not disclose the following features of claim 20: (1) the tuner is configured to receive and convert broadcast content signals to be displayed by the display; (2) TV content presented to a first portion of the display. Thus D1 does not disclose all the features of claim 20 and the subject matter of claim 20 is new in the sense of PCT Article 33(2).

However, the aforementioned feature (1) is common design in the art. As for feature (2), D2 (see page 5, lines 27-30 in the description) provides a method for displaying assistance data and discloses the following features: when digital channel content is broadcast, assistance information is displayed to a portion the screen 400. That is, D2 gives the teach to display TV content in a first portion and to display reminding assistance information in a second portion which overlaps the first portion. Thus, it is obvious for a person skilled in the art to apply the teaching of the D2 and common desigh in the art to D1 and arrive at this solution. Therefore the solution of claim 20 does not involve an inventive step, and does not meet the criteria set out in PCT Article 33(3).

II. Industrial applicability

The invention of claims 1-20 can find industrial applicability in the technical field of TV broadcast, and meets the criteria set out in PCT Article 33(4).

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

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NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

PEARSON, Kendria, E.
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-488-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055303	16 August 2013 (16.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Kihwan Moon
Facsimile No. +41 22 338 82 70	e-mail: pt01.pct@wipo.int

Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-488-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055303	International filing date *(day/month/year)* 16 August 2013 (16.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 6 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Kihwan Moon e-mail: pt01.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: KENDRIA E. PEARSON
SHERIDAN ROSS P.C.
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	05 DEC 2013
Applicant's or agent's file reference 6583-488-PCT	FOR FURTHER ACTION See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055303	16 August 2013	17 August 2012

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 7/173 (2013.01)
USPC - 725/27

Applicant FLEXTRONICS AP, LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	11 November 2013	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055303

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055303

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	None	YES
	Claims	1-20	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO

2. Citations and explanations:

See Supplemental Box

Form PCT/ISA/237 (Box No. V) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055303

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

Claims 1-20 lack novelty under PCT Article 33(2) as being anticipated by Yu et al., hereinafter referred to as Yu.

Regarding claims 1, 10, 16, Yu discloses a method for displaying content on a television (a user platform 140 comprises a television 142, para 0071; figs 17, 18 & 20 shows a method for the user to access television content items via a TV portal, abstract, para 0115, 0122), a non-transitory computer readable information storage medium having stored thereon instructions that cause a computing system to execute a method of displaying content on a television [claim 10] (the computer system 5600 includes a display, and the disk drive unit 5616 includes a non-transitory machine readable medium 5622 and stored on it are instructions and data e.g, software 5624 in a memory 5604 within the processor 5602 executed by the computer system, para 0228, 0229), a system for displaying content on a television, comprising: an input device associated with the television, a memory, and a microprocessor operable [claim 16] (the computer system 5600 includes a display, and the disk drive unit 5616 includes a non-transitory machine readable medium 5622 and stored on it are instructions, para 0228, 0229; figs 17, 18 & 20 shows a method wherein the television content is provided as a listing which can be accessed by the user by manipulating a conventional television remote control device by position the selection box 2022 around a desired TV content item [receiving a first directional input], para 0115, 0122) comprising: receiving a first directional input via an input device associated with the television (a user platform 140 comprises a television 142, para 0071; figs 17, 18 & 20 shows the user access television content items via a TV portal, the television content is provided as a listing which can be accessed by the user by manipulating a conventional television remote control device by position the selection box 2022 around a desired TV content item [receiving a first directional input], para 0115, 0122; fig. 18 displays a content listing area 1820 [screen channel changer/ electronic program guide] which lists the available contents with the time slots which includes the programming channels, which the users can highlights/select a particular content using an input device which upon selection delivers the content, para 0119, 0123); determining, based on a first direction associated with the first directional input, a content panel to display via the television (the user selects the listed TV content by the selection box 2022 by activating a selection button on a remote control device, upon selection of the desired TV content 2022 the user is presented with a TV content overview page 2100 [a content panel to display via the television] as shown in fig.21, para 0122); retrieving, from a memory, a first content information for displaying in the content panel (the user selects the listed TV content by the selection box 2022 by activating a selection button on a remote control device, upon selection of the desired TV content 2022 the user is presented with a TV content overview page 2100 [the page 2100 provides 2114, 2112, 2122 and 2124 contents which are displayed interpreted as first content information for displaying in the content panel] as shown in fig.21, para 0122; fig.6 shows a data processor 111 causes the provision module 117 to retrieve the contents from the assets stored within the service provider database 112 and makes the content accessible to the interface device 644 [interpreted as retrieving, from a memory, a content information for displaying in the content panel] via the network 120, para 0060); identifying at least one of a content source and a second content information currently being displayed via the television (the display 2100 displays the button 2114, the button 2114 "Cast & Crew" being selected by the user [selecting by the user is interpreted as identifying the content source] upon which displays the screen 2200 of fig.22, para 0125); selecting a panel type based on the identified at least one of content source and second content information currently being displayed via the television (upon the user selecting the option of 2114 "Cast & Crew" [content source] on fig.21 the user is provided with a display 2200 which provides the users with a cast page which represents detailed information 2222 related to the selected content item in this case is "Lost" television program [displaying the 2200 page which is square shaped panel including the contents 2222 upon the user selecting the 2114 is interpreted as selecting a panel type based on the identified content source], para 0125); retrieving, from memory, a third content information based on the selected panel type (upon the user selecting the option of 2114 "Cast & Crew" on fig.21 the user is provided with a display 2200 which provides the users with a cast page which represents detailed information 2222 [third content information] related to the selected content item in this case is "Lost" television program [displaying the 2200 page which is square shaped panel including the contents 2222 upon the user selecting the 2114 is interpreted as selecting a panel type based on the identified content source], para 0125; fig.6 shows a data processor 111 causes the provision module 117 to retrieve the contents from the assets stored within the service provider database 112 and makes the content accessible to the interface device 644 [interpreted as retrieving, from a memory, a content information for displaying in the content panel] via the network 120, para 0060); and displaying, via the television, the retrieved first content information and the third content information in the content panel based on the selected panel type (the user selects the listed TV content by the selection box 2022 by activating a selection button on a remote control device, upon selection of the desired TV content 2022 the user is presented with a TV content overview page 2100 [the page 2100 provides 2114, 2112, 2122 and 2124 contents which are displayed interpreted as first content information for displaying in the content panel] as shown in fig.21, para 0122; upon the user selecting the option of 2114 "Cast & Crew" on fig.21 the user is provided with a display 2200 which provides the users with a cast page which represents detailed information 2222 [third content information] related to the selected content item in this case is "Lost" television program [displaying the 2200 page which is square shaped panel including the contents 2222 upon the user selecting the 2114 is interpreted as selecting a panel type based on the identified content source], para 0125; a user platform 140 comprises a television 142, para 0071; figs 17, 18 & 20 shows the user to access television content items via a TV portal, para 0115,0122).

Regarding claims 2, 11, 17, Yu further teaches comprising: retrieving, from a memory, a first image that is representative of the at least one of content source and second content information (the user selects the listed TV content by the selection box 2022 by activating a selection button on a remote control device, upon selection of the desired TV content 2022 the user is presented with a TV content overview page 2100 [the page 2100 provides 2114, 2112, 2122 and 2124 contents which are displayed interpreted as a first image representative of a content source] as shown in fig.21, para 0122; fig.6 shows a data processor 111 causes the provision module 117 to retrieve the contents from the assets stored within the service provider database 112 and makes the content accessible to the interface device 644 [interpreted as retrieving, from a memory, a content information for displaying in the content panel] via the network 120, para 0060); and displaying, via the television, the first image in the content panel (the user selects the listed TV content by the selection box 2022 by activating a selection button on a remote control device, upon selection of the desired TV content 2022 the user is presented with a TV content overview page 2100 [the page 2100 provides 2114, 2112, 2122 and 2124 contents which are displayed] as shown in fig.21, para 0122; a user platform 140 comprises a television 142, para 0071; figs 17, 18 & 20 shows the user to access television content items via a TV portal, para 0115,0122).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055303

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of

Regarding claims 3, 12, 18, Yu further teaches wherein the content panel is an application panel (the user selects the listed TV content by the selection box 2022 by activating a selection button on a remote control device, upon selection of the desired TV content 2022 the user is presented with a TV content overview page 2100 [the page 2100 provides 2114, 2112, 2122 and 2124 contents which are displayed interpreted as application panel] as shown in fig.21, para 0122; fig. 18 displays a content listing area 1820 which lists the available contents with the time slots which includes the programming channels, which the users can highlights/select a particular content [application panel] using an input device which upon selection delivers the content, para 0119, 0123).

Regarding claim 4, Yu further teaches comprising: receiving a second directional input via the input device (a user platform 140 comprises a television 142, para 0071; figs 17, 18 & 20 shows the user access television content items via a TV portal, the television content is provided as a listing which can be accessed by the user by manipulating a conventional television remote control device by position the selection box 2022 around a desired TV content item [receiving a first directional input], further the user selects the listed TV content by the selection box 2022 by activating a selection button on a remote control device [receiving a second directional input], upon selection of the desired TV content 2022 the user is presented with a TV content overview page 2100 as shown in fig.21, para 0115, 0122); and determining, based on a second direction associated with the second directional input, a second content panel to display via the television (the user selects the listed TV content by the selection box 2022 by activating a selection button on a remote control device [receiving a second directional input], upon selection of the desired TV content 2022 the user is presented with a TV content overview page 2100 [second content panel to display] as shown in fig.21, para 0115, 0122).

Regarding claims 5, 14, 19, Yu further teaches comprising: receiving a second directional input via the input device (a user platform 140 comprises a television 142, para 0071; figs 17, 18 & 20 shows the user access television content items via a TV portal, the television content is provided as a listing which can be accessed by the user by manipulating a conventional television remote control device by position the selection box 2022 around a desired TV content item [receiving a first directional input], further the user selects the listed TV content by the selection box 2022 by activating a selection button on a remote control device [receiving a second directional input], upon selection of the desired TV content 2022 the user is presented with a TV content overview page 2100 as shown in fig.21, para 0115, 0122); determining, based on a second direction associated with the second directional input, a source of at least one content information to be displayed in the content panel based on the selected panel type (the user selects the listed TV content by the selection box 2022 by activating a selection button on a remote control device [receiving a second directional input], upon selection of the desired TV content 2022 which in this case is LOST TV program, the user is presented with a TV content overview page 2100 which provides information on the "Lost" TV program [interpreted as determining a source of a content information displayed], as shown in fig.21 , para 0115, 0122); retrieving at least a portion of the at least one content information from the determined source (fig.6 shows a data processor 111 causes the provision module 117 to retrieve the contents from the assets stored within the service provider database 112 and makes the content accessible to the interface device 644 [interpreted as retrieving, from a memory, a content information for displaying in the content panel] via the network 120, para 0060); and displaying, via the television, the content information associated with the determined source (the user selects the listed TV content by the selection box 2022 by activating a selection button on a remote control device [receiving a second directional input], upon selection of the desired TV content 2022 which in this case is LOST TV program, the user is presented with a TV content overview page 2100 which provides information on the "Lost" TV program [interpreted as determining a source of a content information displayed], as shown in fig.21 , para 0115, 0122).

Regarding claims 6, 13, 20, Yu further teaches wherein the third content information comprises information associated with content information marked as favorite (upon the user selecting the option of Bookmark 2124 [third content information] on fig.21 the user is enabled to add the content item to a list of favorite content items [content information marked as favorite] and further can also bookmark the content item for easy access, para 0125).

Regarding claim 7, Yu further teaches wherein the third content information comprises information associated with TV series episode content information (upon the user selecting the option of 2114 "Cast & Crew" on fig.21 the user is provided with a display 2200 which provides the users with a cast page which represents detailed information 2222 [third content information] related to the selected content item in this case is "Lost" television program, and further displays "show synopsis" option which provides details of the television program LOST [TV series episode content information], para 0125).

Regarding claim 8, Yu further teaches wherein the selected panel type is a search panel (figs.33, 34 & 35 shows on the display 3300 the user selects the search option 1715, and is presented with the search panel 3400, where the user types in the search terms 3422 and searches, para 0139, 0140).

Regarding claim 9, Yu further teaches wherein the selected panel type is a recommended panel (figs.33, 34 & 35 shows on the display 3300 the user selects the search option 1715, and is presented with the search panel 3400, where the user types in the search terms 3422 and searches, further based on the search query the user is provided with suggestions in the suggestions box 3424 [recommended panel], para 0139, 0140).

Regarding claim 15, Yu further teaches wherein the third content information comprises information associated with TV series episode content information (upon the user selecting the option of 2114 "Cast & Crew" on fig.21 the user is provided with a display 2200 which provides the users with a cast page which represents detailed information 2222 [third content information] related to the selected content item in this case is "Lost" television program, and further displays "show synopsis" option which provides details of the television program LOST [TV series episode content information], para 0125), and wherein the selected panel type is an info panel associated with the TV series episode content information (fig.18 shows the TV content listing with the option 1826 which the user activates by selecting, upon which the user is presented with the window 2100 on fig.21 which provides the user with the "show synopsis" option which provides details of the television program LOST [TV series episode content information], para 0123, 0125).

Claims 1-20 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

AU, Yiu, F.
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-519-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055567	19 August 2013 (19.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Simin Baharlou

e-mail: pt09.pct@wipo.int

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-519-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055567	International filing date *(day/month/year)* 19 August 2013 (19.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 8 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☒	Box No. VII	Certain defects in the international application
☒	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Simin Baharlou e-mail: pt09.pct@wipo.int

Form PCT/IB/373 (January 2004)

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Yiu F. Au
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, Colorado 80202
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	20 DEC 2013
Applicant's or agent's file reference: 6583-519-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US13/55567	19 August 2013 (19.08.2013)	17 August 2012 (17.08.2012)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/00, 13/00; H04N 5/445, 7/14 (2013.01)
USPC - 725/037, 39; 348/14.07

Applicant FLEXTRONICS AP, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☒ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	2 November 2013 (02.11.2013)	Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55567

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55567

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	NONE	YES
	Claims	1-20	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-20 lack novelty under PCT Article 33(2) as being anticipated by US 2011/0276995 A1 to Alten et al. (hereinafter 'Alten').

As to claim 1, Alten discloses an EPG data service (electronic program guide to operate as a shell or window to provide the user with the capability to access other applications, paragraph [0022]) for an Intelligent TV (television receiver 27), comprising: a plurality of source plugins configured to receive EPG information from a plurality of respective EPG information sources (the electronic program guide (EPG) to operate as a shell or window to provide the user with the capability to access other applications (plugins) or information systems (information sources) which are not part of the electronic program guide application or data, paragraph [0022]); an EPG subservice configured to aggregate the EPG information received by the plurality of source plugins (Each of these keys indicates to the program schedule system a distinct user-created "Channel Preference" or "Favorite Channel" list, which is a listing of a specific subset (EPG subservice) of channels for a particular user, arranged in the sequential order that the user wishes to view during operation of the program schedule system, paragraph [0099]); an EPG database configured to store the aggregated EPG information from the EPG subservice (electronic program guide (EPG) application software updates, is stored in a read only memory (ROM) 17. The microcontroller 16 uses the received program schedule information to build a database (EPG database) by storing the data in appropriately organized records (aggregated EPG information), paragraph [0084]); and an EPG provider configured to provide a relevant portion of the aggregated EPG information to an application of the Intelligent TV (The data provider is a program information provider, the satellite uplink manager, a local cable operator, or a combination of these sources, and the data stream contains program schedule information for all television programs and other services available, paragraph [0081]).

As to claim 2, Alten discloses the EPG data service of claim 1, wherein the EPG database is configured to store the aggregated EPG information relevant to programs within a pre-defined time interval (The microcontroller 16 uses the received program schedule information to build a database by storing the data in appropriately organized records in dynamic random access memory (DRAM) 18. The stored schedule information can be updated on a periodic basis, such as hourly, daily or weekly, or at any time when changes in scheduling or other factors warrant an update, paragraph [0084]).

As to claim 3, Alten discloses the EPG data service of claim 1, wherein the aggregated EPG information comprises data fields that includes one or more of an identifier, a name description, a start date and/or time, and a duration (The schedule information presented includes the name of the program and program start/stop time, paragraph [0113]).

As to claim 4, Alten discloses the EPG data service of claim 1, further comprising a tag subservice configured to receive notification from a second application of the Intelligent TV to set or unset tags for programs or channels, store the tag in a database, and serve the EPG subservice with information regarding tagged programs or channels (The REMINDER message 130 (notification) queries the user as to whether the system should remind the user, at a predetermined time before the start of the selected program (tagged program), that he or she would like to view the selected program, as shown in FIG. 13. If the user responds affirmatively, the microcontroller 16 stores reminder data consisting of at least the channel, time and day of the selected program in a reminder buffer, which contains similar schedule information for all programs for which the user has set a reminder, paragraph [0115]).

As to claim 5, Alten discloses the EPG data service of claim 4, wherein, on startup of the Intelligent TV, the tag subservice is configured to reschedule alarms in an alarm manager of the Intelligent TV for programs or channels tagged as a reminder, wherein the alarm manager is configured to notify the tag subservice when a time for a scheduled reminder is reached, and wherein the tag subservice is configured to notify the second application regarding the scheduled reminder (The REMINDER message 130 (notification/alarm) queries the user as to whether the system should remind the user, at a predetermined time (time for a scheduled reminder) before the start of the selected program (tagged program), that he or she would like to view the selected program, as shown in FIG. 13. If the user responds affirmatively, the microcontroller 16 stores reminder data consisting of at least the channel, time and day of the selected program in a reminder buffer, which contains similar schedule information for all programs for which the user has set a reminder, paragraph [0115]).

As to claim 6, Alten discloses the EPG data service of claim 1, further comprising a thumbnail cache manager configured to store thumbnails in a database and serve the thumbnails to the application (All Listings icon (thumbnail) in the top horizontal bar 61 of FIG. 6 identifies a "Category Listing" mode in which program schedule information is displayed and categorized by program content, as shown in FIG. 19. The particular listing shown in FIG. 19 includes the categories of Movies, Sports, News and Children 190A-190D. The database record stored for each listing contains a content-specific identifier (icon/thumbnail) so the microcontroller can search the database and categorize the information by content for purposes of displaying it in the Category Listing mode, paragraph [0125]).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55567

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

Claims 8, 12, and 18 contain the following defects in the form or contents thereof:

Claim 8, line 2, change "Intelligenttelevision" to "Intelligent Television".

Claim 12, line 2, delete "a".

Claim 18, line 3, delete "a".

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55567

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 4, 11-12, and 17 are objected to under PCT Article 6 as lacking clarity, because claim 4, 11-12, and 17 are indefinite for the following reason(s):

Claims 4, 11, and 17, lines 3, 3, and 5 respectively, "the tag" lacks antecedent basis. It is unclear which tag of the previously recited "tags" is intended.

Claim 12, lines 3-4, "the tag subservice" lacks antecedent basis.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55567

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

-***-Continued from Box V: Citations and Explanations-***-

As to claim 7, Alten discloses the EPG data service of claim 6, wherein the EPG subservice is configured to serve to the application a uniform resource identifier (URI) for each thumbnail in the aggregated EPG information, and wherein the thumbnail cache manager is configured to serve a thumbnail to the application based on the URI (The particular listing shown in FIG. 19 includes the categories of Movies, Sports, News and Children 190A-190D (EPG subservice). The database record stored for each listing contains a content-specific identifier so the microcontroller can search the database and categorize the information by content for purposes of displaying it in the Category Listing mode, paragraph [0125]).

As to claim 8, Alten discloses a method of managing Electronic Programming Guide (EPG) information (electronic program guide to operate as a shell or window to provide the user with the capability to access other applications, paragraph [0022]) for an Intelligent television (TV) (television receiver 27), comprising: receiving EPG information from a plurality of EPG sources (the electronic program guide (EPG) to operate as a shell or window to provide the user with the capability to access other applications or information systems (information sources) which are not part of the electronic program guide application or data, paragraph [0022]); aggregating the EPG information from the plurality of EPG sources (Each of these keys indicates to the program schedule system a distinct user-created "Channel Preference" or "Favorite Channel" list, which is a listing of a specific subset (EPG subservice) of channels for a particular user, arranged in the sequential order that the user wishes to view during operation of the program schedule system, paragraph [0099]); storing the aggregated EPG information in a database (electronic program guide (EPG) application software updates, is stored in a read only memory (ROM) 17. The microcontroller 16 uses the received program schedule information to build a database (EPG database) by storing the data in appropriately organized records (aggregated EPG information), paragraph [0084]); and providing a relevant portion of the aggregated EPG information to an application of the Intelligent TV (The data provider is a program information provider, the satellite uplink manager, a local cable operator, or a combination of these sources, and the data stream contains program schedule information for all television programs and other services available, paragraph [0081]).

As to claim 9, Alten discloses the method of claim 8, wherein the storing step comprises storing the aggregated EPG information relevant to programs within a pre-defined time interval (The microcontroller 16 uses the received program schedule information to build a database by storing the data in appropriately organized records in dynamic random access memory (DRAM) 18. The stored schedule information can be updated on a periodic basis, such as hourly, daily or weekly, or at any time when changes in scheduling or other factors warrant an update, paragraph [0084]).

As to claim 10, Alten discloses the method of claim 8, the aggregated EPG information comprises data fields that include one or more of an identifier, a name description, a start date and/or time, and a duration (The schedule information presented includes the name of the program and program start/stop time, paragraph [0113]).

As to claim 11, Alten discloses the method of claim 8, further comprising receiving notification from a second application of the Intelligent TV to set or unset tags for programs or channels, storing the tag in a second database, and retrieving EPG information from the database based on information regarding tagged programs or channels (The REMINDER message 130 (notification/alarm) queries the user as to whether the system should remind the user, at a predetermined time (time for a scheduled reminder) before the start of the selected program (tagged program), that he or she would like to view the selected program, as shown in FIG. 13. If the user responds affirmatively, the microcontroller 16 stores reminder data consisting of at least the channel, time and day of the selected program in a reminder buffer, which contains similar schedule information for all programs for which the user has set a reminder, paragraph [0115]).

As to claim 12, Alten discloses the method of claim 11, further comprising, on a startup of the Intelligent TV, rescheduling alarms in an alarm manager of the Intelligent TV for programs or channels tagged as a reminder, wherein the alarm manager is configured to notify the tag subservice when a time for a scheduled reminder is reached; and notifying the second application regarding the scheduled reminder (The REMINDER message 130 (notification/alarm) queries the user as to whether the system should remind the user, at a predetermined time (time for a scheduled reminder) before the start of the selected program (tagged program), that he or she would like to view the selected program, as shown in FIG. 13. If the user responds affirmatively, the microcontroller 16 stores reminder data consisting of at least the channel, time and day of the selected program in a reminder buffer, which contains similar schedule information for all programs for which the user has set a reminder, paragraph [0115]).

As to claim 13, Alten discloses the method of claim 8, further comprising serving to the application a uniform resource identifier (URI) for each thumbnail in the aggregated EPG information; and serving a thumbnail to the application based on the URI (The particular listing shown in FIG. 19 includes the categories of Movies, Sports, News and Children 190A-190D (EPG subservice). The database record stored for each listing contains a content-specific identifier so the microcontroller can search the database and categorize the information by content for purposes of displaying it in the Category Listing mode, paragraph [0125]).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55567

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

-***-Continued from Previous Supplemental Box-***-

As to claim 14, Alten discloses an Intelligent TV comprising an application configured to display EPG information on the Intelligent TV and an EPG data service, the EPG data service comprising (the television receiver or display (intelligent TV) of schedule information in any of the operating modes of the electronic program guide (EPG), paragraph [0171]): a plurality of source plugins configured to receive EPG information from a plurality of respective EPG information sources (the electronic program guide (EPG) to operate as a shell or window to provide the user with the capability to access other applications (plugins) or information systems (information sources) which are not part of the electronic program guide application or data, paragraph [0022]); an EPG subservice configured to aggregate the EPG information received by the plurality of source plugins (Each of these keys indicates to the program schedule system a distinct user-created "Channel Preference" or "Favorite Channel" list, which is a listing of a specific subset (EPG subservice) of channels for a particular user, arranged in the sequential order that the user wishes to view during operation of the program schedule system, paragraph [0099]); an EPG database configured to store the aggregated EPG information from the EPG subservice (electronic program guide (EPG) application software updates, is stored in a read only memory (ROM) 17. The microcontroller 16 uses the received program schedule information to build a database (EPG database) by storing the data in appropriately organized records (aggregated EPG information), paragraph [0084]); and an EPG provider configured to provide a relevant portion of the aggregated EPG information to the application (The data provider is a program information provider, the satellite uplink manager, a local cable operator, or a combination of these sources, and the data stream contains program schedule information for all television programs and other services available, paragraph [0081]).

As to claim 15, Alten discloses the Intelligent TV of claim 14, wherein the EPG database is configured to store the aggregated EPG information relevant to programs within a pre-defined time interval (The microcontroller 16 uses the received program schedule information to build a database by storing the data in appropriately organized records in dynamic random access memory (DRAM) 18. The stored schedule information can be updated on a periodic basis, such as hourly, daily or weekly, or at any time when changes in scheduling or other factors warrant an update, paragraph [0084]).

As to claim 16, Alten discloses the Intelligent TV of claim 14, wherein the aggregated EPG information comprises data fields that includes one or more of an identifier, a name description, a start date and/or time, and a duration (The schedule information presented includes the name of the program and program start/stop time, paragraph [0113]).

As to claim 17, Alten discloses the Intelligent TV of claim 14, further comprising a second application configured to output and receive user input regarding tags for programs and channels, wherein the EPG data service further comprises a tag subservice configured to receive notification from the second application to set or unset tags for programs or channels, store the tag in a database, and serve the EPG subservice with information regarding tagged programs or channels (The REMINDER message 130 (notification) queries the user as to whether the system should remind the user, at a predetermined time before the start of the selected program (tagged program), that he or she would like to view the selected program, as shown in FIG. 13. If the user responds affirmatively, the microcontroller 16 stores reminder data consisting of at least the channel, time and day of the selected program in a reminder buffer, which contains similar schedule information for all programs for which the user has set a reminder, paragraph [0115]).

As to claim 18, Alten discloses the Intelligent TV of claim 17, further comprising an alarm manager, wherein, on startup of the Intelligent TV, the tag subservice is configured to reschedule alarms in an alarm manager of the Intelligent TV for programs or channels tagged as a reminder, wherein the alarm manager is configured to notify the tag subservice when a time for a scheduled reminder is reached, and wherein the tag subservice is configured to notify the second application regarding the scheduled reminder (The REMINDER message 130 (notification/alarm) queries the user as to whether the system should remind the user, at a predetermined time (time for a scheduled reminder) before the start of the selected program (tagged program), that he or she would like to view the selected program, as shown in FIG. 13. If the user responds affirmatively, the microcontroller 16 stores reminder data consisting of at least the channel, time and day of the selected program in a reminder buffer, which contains similar schedule information for all programs for which the user has set a reminder, paragraph [0115]).

As to claim 19, Alten discloses the Intelligent TV of claim 14, wherein the EPG data service further comprises a thumbnail cache manager configured to store thumbnails in a database and serve the thumbnails to the application (All Listings icon (thumbnail) in the top horizontal bar 61 of FIG. 6 identifies a "Category Listing" mode in which program schedule information is displayed and categorized by program content, as shown in FIG. 19. The particular listing shown in FIG. 19 includes the categories of Movies, Sports, News and Children 190A-190D. The database record stored for each listing contains a content-specific identifier (icon/thumbnail) so the microcontroller can search the database and categorize the information by content for purposes of displaying it in the Category Listing mode, paragraph [0125]).

As to claim 20, Alten discloses the Intelligent TV of claim 19, wherein the EPG subservice is configured to serve to the application a uniform resource identifier (URI) for each thumbnail in the aggregated EPG information, and wherein the thumbnail cache manager is configured to serve a thumbnail to the application based on the URI (The particular listing shown in FIG. 19 includes the categories of Movies, Sports, News and Children 190A-190D (EPG subservice). The database record stored for each listing contains a content-specific identifier so the microcontroller can search the database and categorize the information by content for purposes of displaying it in the Category Listing mode, paragraph [0125]).

Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

AU, Yiu, F.
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-520-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055570	19 August 2013 (19.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP, LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Simin Baharlou

e-mail: pt09.pct@wipo.int

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-520-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055570	International filing date *(day/month/year)* 19 August 2013 (19.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP, LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 6 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Simin Baharlou e-mail: pt09.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Yiu F. Au
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, Colorado 80202
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	22 NOV 2013
Applicant's or agent's file reference 6583-520-PCT	FOR FURTHER ACTION See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US13/55570	19 August 2013 (19.08.2013)	17 August 2012 (17.08.2012)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/00, 13/00; H04N 5/445, 7/14 (2013.01)
USPC - 725/037, 39, 40; 348/14.07

Applicant Flextronics AP, LLC

1. This opinion contains indications relating to the following items:

- [x] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [x] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	11 November 2013 (11.11.2013)	Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55570

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55570

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	NONE	YES
	Claims	1-20	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-20 lack novelty under PCT Article 33(2) as being anticipated by US 7,174,126 B2 McElhatten et al. (hereinafter "McElhatten").

As to claim 1, McElhatten discloses a method of displaying Electronic Programming Guide (EPG) information on an Intelligent television (TV), comprising: (accessing and locating the desired program from the interactive program guide (electronic programming guide EPG) is a menu including different reservation options for selections is displayed on the TV screen (intelligent television), column 16, lines 30-32 and column 14, lines 7-8) displaying an in-use portion on a screen of the Intelligent TV (GUI 1900 comprises window 1903 which displays thereon an in-progress HBO program, Figure 31, column 32, lines 42-43); and displaying a partial portion on the screen, comprising displaying a favorite channel portion showing EPG information for a plurality of favorite tagged channels (A channel may be designated as a "Favorite Channel" by selecting "Favorite Channels" from the Favorites menu 1420 or by pressing FAV key 980 of remote control 900. Once a user has defined one or more Favorite channels, the user can toggle interactive program guide 1020 to display only Favorite channels and re-toggle back to the full list of channels, Figure 24, column 26, line 64 through column 27, line 4) and a favorite show portion showing EPG information for a plurality of favorite tagged shows (Reserve GUI 5520 is displayed, providing the user with two reserve options (5530): (1) reserve the program, and (2) select a season pass. The program reserve option which is highlighted as the default choice enables a user to select a program to be added to a user's Favorite Show list which becomes available for viewing after the program has broadcast. Program guide 5510b is then redisplayed, Figure 23, column 17, lines 3-10).

As to claim 2, McElhatten discloses the method of claim 1, wherein the partial portion overlays the in-use portion (GUI 1900 comprises window 1903 (overlays) which displays thereon an in-progress HBO program, Figure 31, column 32, lines 42-43).

As to claim 3, McElhatten discloses the method of claim 1, wherein the in-use portion comprises a currently playing TV program (GUI 1900 comprises window 1903 which displays thereon an in-progress HBO program (currently playing TV program), Figure 31, column 32, lines 42-43).

As to claim 4, McElhatten discloses the method of claim 1, wherein the partial portion resizes the in-use portion (GUI 1900 comprises window 1903 (resized into smaller corner window) which displays thereon an in-progress HBO program (currently playing TV program), Figure 31, column 32, lines 42-43).

As to claim 5, McElhatten discloses the method of claim 1, wherein the plurality of favorite tagged shows is a plurality of shows that are currently airing (Users can reserve programs that are currently being broadcast while they are watching the program or from an interactive program guide, Figure 23, column 15, lines 37-42).

As to claim 6, McElhatten discloses the method of claim 1, wherein the partial portion is generated by an EPG display application of the Intelligent TV (GUI 1900 comprises window 1903 (overlays) which displays thereon an in-progress HBO program, Figure 31, column 32, lines 42-43).

As to claim 7, McElhatten discloses the method of claim 6, wherein the EPG display application is configured to retrieve the EPG information for the plurality of favorite tagged channels and the plurality of favorite tagged shows through an EPG subservice, wherein the EPG subservice is configured to retrieve channels and shows tagged as favorite through a tag subservice (By accessing Home GUI 1030, a user is prompted to select one of the programming features listed in menu 1110. By selecting Favorites feature 1410 of menu 1110, the user accesses Favorites submenu 1420 on Favorites GUI 1400 which offers several choices concerning the Favorites feature. For example, in this instance the user can choose from: creating a new profile, deleting an existing profile, adding parameters to an existing profile, finding favorite channels or shows and excluding channels, Figure 23, column 25, line 64 through column 26, line 6).

As to claim 8, McElhatten discloses the method of claim 7, wherein a second application is configured to set and clear favorite tags for channels and shows through the tag subservice (By selecting Favorites feature 1410 of menu 1110, the user accesses Favorites submenu 1420 on Favorites GUI 1400 which offers several choices concerning the Favorites feature. For example, in this instance the user can choose from: creating (set) a new profile, deleting (clear) an existing profile, adding parameters to an existing profile, finding favorite channels or shows and excluding channels, Figure 23, column 25, line 65 through column 26, line 6).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55570

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

-***-Continued from Previous Supplemental Box-***-

As to claim 9, McElhatten discloses the method of claim 6, wherein the EPG display is configured to retrieve and display thumbnails for channels and shows through a thumbnail cache manager, wherein uniform resource identifiers (URIs) for each thumbnail is in the EPG information retrieved through the EPG subservice, and wherein the thumbnail cache manager is configured to serve each thumbnail using the respective URI (Figure 31, What's Hot feature to reserve certain HBO programs (channel) through their promotional previews, the user may select a "What's Hot!" option, denoted 1925. Similar to a What's Hot preview, a thumbnail preview, denoted 1931, may be used to reserve the program (show) e.g., "The Gathering Storm" featured in the preview in advance of the broadcast of the program e.g., on April 27. To make such a reservation, the user may highlight and select preview 1931, Figure 31, column 32, line 63 through column 33, line 5).

As to claim 10, McElhatten discloses a display for an Intelligent television (TV), comprising a live TV display and an Electronic Programming Guide (EPG) display, the EPG display is positioned at a side of the live TV display (GUI 1900 comprises window 1903 which displays thereon an in-progress HBO program, Figure 31, column 32, lines 42-43) and comprising: a favorite channel portion showing EPG information for a plurality of favorite tagged channels (A channel may be designated as a "Favorite Channel" by selecting "Favorite Channels" from the Favorites menu 1420 or by pressing FAV key 980 of remote control 900. Once a user has defined one or more Favorite channels, the user can toggle interactive program guide 1020 to display only Favorite channels and re-toggle back to the full list of channels, Figure 24, column 26, line 64 through column 27, line 4); and a favorite show portion showing EPG information for a plurality of favorite tagged shows, wherein an EPG display application is configured to generate the EPG display portion and retrieve the EPG information for the plurality of favorite tagged channels and the plurality of favorite tagged shows through an EPG subservice, wherein the EPG subservice is configured to retrieve channels and shows tagged as favorite through a tag subservice (Reserve GUI 5520 is displayed, providing the user with two reserve options (5530): (1) reserve the program, and (2) select a season pass. The program reserve option which is highlighted as the default choice enables a user to select a program to be added to a user's Favorite Show list which becomes available for viewing after the program has broadcast. Program guide 5510b is then redisplayed, Figure 23, column 17, lines 3-10), and wherein a second application is configured to set and clear favorite tags for channels and shows through the tag subservice (By selecting Favorites feature 1410 of menu 1110, the user accesses Favorites submenu 1420 on Favorites GUI 1400 which offers several choices concerning the Favorites feature. For example, in this instance the user can choose from: creating (set) a new profile, deleting (clear) an existing profile, adding parameters to an existing profile, finding favorite channels or shows and excluding channels, column 25, line 65 through column 26, line 6).

As to claim 11, McElhatten discloses a display for an Intelligent television TV, comprising a partial-screen display on an in-use display of the Intelligent TV, the partial-screen display comprising a favorite channel portion showing Electronic Programming Guide EPG information for a plurality of favorite tagged channels (A channel may be designated as a "Favorite Channel" by selecting "Favorite Channels" from the Favorites menu 1420 or by pressing FAV key 980 of remote control 900. Once a user has defined one or more Favorite channels, the user can toggle interactive program guide 1020 to display only Favorite channels and re-toggle back to the full list of channels, Figure 24, column 26, line 64 through column 27, line 4) and a favorite show portion showing EPG information for a plurality of favorite tagged shows (Reserve GUI 5520 is displayed, providing the user with two reserve options (5530): (1) reserve the program, and (2) select a season pass. The program reserve option which is highlighted as the default choice enables a user to select a program to be added to a user's Favorite Show list which becomes available for viewing after the program has broadcast. Program guide 5510b is then redisplayed, Figure 23, column 17, lines 3-10).

As to claim 12, McElhatten discloses the EPG display of claim 11, wherein the partial-screen display overlays the in-use display of the intelligent TV (GUI 1900 comprises window 1903 (overlays) which displays thereon an in-progress HBO program, Figure 31, column 32, lines 42-43).

As to claim 13, McElhatten discloses the EPG display of claim 11, wherein the in-use display comprises a currently playing TV program (GUI 1900 comprises window 1903 which displays thereon an in-progress HBO program (currently playing TV program), Figure 31, column 32, lines 42-43).

As to claim 14, McElhatten discloses the EPG display of claim 11, wherein the partial-screen display resizes the in-use display (GUI 1900 comprises window 1903 (resized into smaller corner window) which displays thereon an in-progress HBO program (currently playing TV program), Figure 31, column 32, lines 42-43).

As to claim 15, McElhatten discloses the EPG display of claim 11, wherein the plurality of favorite tagged shows is a plurality of shows that are currently airing (Users can reserve programs that are currently being broadcast while they are watching the program or from an interactive program guide, Figure 23, column 15, lines 37-42).

As to claim 16, McElhatten discloses the EPG display of claim 11, wherein an EPG display application is configured to generate the partial-screen display (GUI 1900 comprises window 1903 (overlays) which displays thereon an in-progress HBO program, Figure 31, column 32, lines 42-43).

As to claim 17, McElhatten discloses the EPG display of claim 16, wherein the EPG display application is configured to retrieve the EPG information for the plurality of favorite tagged channels and the plurality of favorite tagged shows through an EPG subservice, wherein the EPG subservice is configured to retrieve channels and shows tagged as favorite through a tag subservice (By accessing Home GUI 1030, a user is prompted to select one of the programming features listed in menu 1110. By selecting Favorites feature 1410 of menu 1110, the user accesses Favorites submenu 1420 on Favorites GUI 1400 which offers several choices concerning the Favorites feature. For example, in this instance the user can choose from: creating a new profile, deleting an existing profile, adding parameters to an existing profile, finding favorite channels or shows and excluding channels, Figure 23, column 25, line 64 through column 26, line 6).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US13/55570

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

-***-Continued from Previous Supplemental Box-***-

As to claim 18, McElhatten discloses the EPG display of claim 17, wherein a second application is configured to set and clear favorite tags for channels and shows through the tag subservice (By selecting Favorites feature 1410 of menu 1110, the user accesses Favorites submenu 1420 on Favorites GUI 1400 which offers several choices concerning the Favorites feature. For example, in this instance the user can choose from: creating (set) a new profile, deleting (clear) an existing profile, adding parameters to an existing profile, finding favorite channels or shows and excluding channels, Figure 23, column 25, line 65 through column 26, line 6).

As to claim 19, McElhatten discloses the EPG display of claim 16, wherein the EPG display application is configured to retrieve and display thumbnails for channels and shows through a thumbnail cache manager, wherein uniform resource identifiers (URIs) for each thumbnail is in the EPG information retrieved through the EPG subservice, and wherein the thumbnail cache manager is configured to serve each thumbnail using the respective URI (Figure 31, What's Hot feature to reserve certain HBO programs (channel) through their promotional previews, the user may select a "What's Hot!" option, denoted 1925. Similar to a What's Hot preview, a thumbnail preview, denoted 1931, may be used to reserve the program (show) e.g., "The Gathering Storm" featured in the preview in advance of the broadcast of the program e.g., on April 27. To make such a reservation, the user may highlight and select preview 1931, Figure 31, column 32, line 63 through column 33, line 5).

As to claim 20, McElhatten discloses a tangible and non-transient computer readable medium comprising microprocessor executable instructions that, when executed by the microprocessor, perform the steps of claim 1 (processor 109 while processing TV program 201 may locate the corresponding program guide data to create in real time the metadata file associated with TV program 201. The metadata file thus created includes such data as the title, rating, names of the producer, director, and actors, duration of the program, program type, etc, column 7, lines 5-12).

Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2426
Mohammed Selim	)	Confirmation No.: 1062
Serial No.: 13/968,884	)	Examiner: Adil Ocak
Filed: August 16, 2013	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-445	)	
Entitled: "On Screen Method and System for Changing Television Channels"	)	*Electronically Submitted*

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☒ Examiner's attention is drawn to the following related applications:

Serial No. 14/407593 filed 12/12/2014 (Attorney Ref. No. 6583-470-PUS)
Serial No. 14/407598 filed 12/12/2014 (Attorney Ref. No. 6583-424-PUS)
Serial No. 14/407601 filed 12/12/2014 (Attorney Ref. No. 6583-471-PUS)
Serial No. 14/407609 filed 12/12/2014 (Attorney Ref. No. 6583-472-PUS)
Serial No. 14/418969 filed 02/02/2015 (Attorney Ref. No. 6583-430-PUS)
Serial No. 14/418972 filed 02/02/2015 (Attorney Ref. No. 6583-487-PUS)
Serial No. 14/418971 filed 02/02/2015 (Attorney Ref. No. 6583-507-PUS)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☐	**37 CFR 1.97(b)**: No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, or ☐ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	**37 CFR 1.97(c)**: The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of any one of the following conditions: (1) a final action under 37 C.F.R. 1.113, or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of $180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☒	**37 CFR 1.97(d)**: This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☒ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☒ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of $180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

EX. 1002
LG Electronics, Inc. / Page 244 of 3523

Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☒ The undersigned certifies that:

☐ Each item of information contained in the Information Disclosure Statement submitted herewith was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☒ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: April 2, 2015

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	1	of	1	Attorney Docket Number	6583-445

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code [2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	1	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2013/055288, mailed Feb. 26, 2015 (Attorney's Ref. No. 6583-445-PCT) 10 pages

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

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MAR 16 2015
SHERIDAN ROSS, P.C.
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To:

LENNOX-GENTLE, Thaine
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 26 February 2015 (26.02.2015)	
Applicant's or agent's file reference 6583-445-PCT	**IMPORTANT NOTICE**

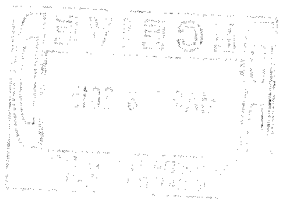
International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055288	16 August 2013 (16.08.2013)	17 August 2012 (17.08.2012)

Applicant
FLEXTRONICS AP , LLC

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Philippe Bécamel
Facsimile No. +41 22 338 82 70	e-mail: pt03.pct@wipo.int

Form PCT/IB/326 (January 2004)



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-445-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2013/055288	International filing date *(day/month/year)* 16 August 2013 (16.08.2013)	Priority date *(day/month/year)* 17 August 2012 (17.08.2012)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant FLEXTRONICS AP , LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☒	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 17 February 2015 (17.02.2015)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Philippe Bécamel e-mail: pt03.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: THAINE LENNOX-GENTLE
SHERIDAN ROSS P.C.
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	02DEC 2013
Applicant's or agent's file reference 6583-445-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2013/055288	16 August 2013	17 August 2012

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 7/173 (2013.01)
USPC - 725/27

Applicant FLEXTRONICS AP, LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	11 November 2013	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055288

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055288

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-20	YES
	Claims	None	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-20 lack an inventive step under PCT Article 33(3) as being obvious over Yu et al., hereinafter referred to as Yu in view of Hill et al., hereinafter referred to as Hill.

Regarding claims 1, 7, 13, Yu discloses a method [claim 1] (a method for providing content, abstract), a television, comprising: a television screen [claim 7] (a user platform 140 comprises a television 142 [includes television screen], figs.2 & 7 para 0071): a tangible and non-transient computer readable medium, comprising microprocessor executable instructions that, when executed, are configured to perform operations comprising [claim 13] (a non-transitory machine readable medium 5622 which stores instructions, further a memory 5606 and processor 5602 executes the instructions and transmitted over the network, para 0229): comprising: receiving, wirelessly by at least one of an infrared and radio frequency module of a television and from a remote control, a request to change a programming channel (a user platform 140 comprises a television 142, para 0071; figs 17, 18 & 20 shows the user access television content items via a TV portal, the television content is provided as a listing which can be accessed by the user by manipulating a conventional television remote control device by position the selection box 2022 around a desired TV content item [it is inherent for a conventional television remote control device to include an infrared module and as the TV receives the selection via the infrared the television also includes an infrared module], para 0115, 0122);
displaying, by a microprocessor executable application framework and on a television screen, an on screen channel changer, the on screen channel changer comprising electronic program guide ("EPG") information (fig. 18 displays a content listing area 1820 [screen channel changer/ electronic program guide] which lists the available contents with the time slots which includes the programming channels, which the users can highlights/select a particular content using an input device which upon selection delivers the content, para 0119, 0123; further fig. 20 displays a TV portal 2012 which displays a listing of television content which can be accessed by the user, and displays an electronic/interactive programing guide (EPG) on a user selection platform 140, and further the user selects the listed TV content by position the selection box 2022 using the remote control device, para 0086, 0122; fig.56 shows a processor 5602 that is a central processing unit which executes instructions to provide display at the display unit 5610, para 0228),
receiving, by the application framework and from the remote control, a channel selection using the on screen channel changer (fig. 18 displays a content listing area 1820 [screen channel changer/ application framework] which lists the available contents with the time slots which includes the programming channels, which the users can highlights/select a particular content using an input device which upon selection [receiving a channel selection] delivers the content, para 0119, 0123; further fig. 20 displays a TV portal 2012 which displays a listing of television content which can be accessed by the user, and displays an electronic/interactive programing guide (EPG) on a user selection platform 140, and further the user selects the particular listed TV content by position the selection box 2022 [receiving a channel selection using the remote control] using the remote control device, para 0086, 0122);
and changing, by the application framework, to the selected channel (further fig. 20 displays a TV portal 2012 wherein the user selects the particular listed TV content by position the selection box 2022 using the remote control device and upon the selection of 2022 the user is presented with fig.21 wherein the display 2100 provides the user with an option to select 2122 upon the selection of that button the user is enable to watch the content [interpreted as changing to the selected channel], para 0086, 0122), but lacks the teaching of the on screen channel changer comprising a number input bar comprising digits; receiving a channel selection based on digits using the on screen channel changer.
Hill is in the field of a TV display 28 which displays a soft number pad used to receive inputs for channel selection (see para 0119) and teaches displaying the on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits (fig.1 shows a TV display 28 and a broadcast EPG is displayed on the display 28, para 0014; figs. 2 & 7 shows an image button 62 which can be selected by the user to display an electronic programing guide to be presented on the display 28, further the display 28 displays a soft number pad 310 which allows the viewer to select any number from zero to nine to input to select/tune to a specific channel number, para 0019) receiving a channel selection based on digits using the on screen channel changer (fig.1 shows a TV display 28 and a broadcast EPG is displayed on the display 28, para 0014; figs. 2 & 7 shows an image button 62 which can be selected by the user to display an electronic programing guide to be presented on the display 28, further the display 28 displays a soft number pad 310 which allows the viewer to select any number from zero to nine to input [receiving a channel selection] to select/tune to a specific channel number, para 0019). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Hill to incorporate the on screen channel changer comprising a number input bar comprising digits; receiving a channel selection based on digits using the on screen channel changer into the invention of Yu. The motivation would have been to provide a touch interface for an optimized user experience (see para 0004).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055288

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 7-19 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because Claim 1 is indefinite for the following reasons:

Claim 7 seems to incorrectly combine two separate claims, and recites "A television, comprising: a television screen..... and change to the selected channel. The television of claim 7, wherein the digits range from 0 to 9." Further, claims 8-9 depend from themselves. For the purpose of the written opinion, claims 7-19 are interpreted as including an extra claim, to provide a total of 20 claims, and to recite the following:

7. A television, comprising: a television screen; at least one of an infrared and radio frequency module configured to receive wirelessly requests from a remote control of a user, the requests comprising a selected channel or program from a displayed listing; and microprocessor executable application framework configured to receive a request to change a programming channel, display, on the television screen, an on screen channel changer, the on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, receive, from the remote control, a channel selection based on digits using the on screen channel changer, and change to the selected channel.

8. The television of claim 7, wherein the digits range from 0 to 9, wherein the remote control selects the digits using non-numeric keys, and wherein the EPG information corresponds to multiple programs and/or channels, and wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description.

9. The television of claim 8, wherein each of the digits are selected using one or more arrow keys and a select button.

10. The television of claim 9, wherein the remote control does not have a key corresponding to each of the digits.

11. The television of claim 7, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, and wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program.

12. The television of claim 7, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits.

13. A tangible and non-transient computer readable medium, comprising microprocessor executable instructions that, when executed, are configured to perform operations comprising: receive, from a remote control of a user, a request to change a programming channel; display, on a television screen, an on screen channel changer, the on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits; receive, from the remote control, a channel selection based on digits using the on screen channel changer; and change to the selected channel.

14. The computer readable medium of claim 13, wherein the digits range from 0 to 9, wherein the remote control selects the digits using non-numeric keys, and wherein the EPG information corresponds to multiple programs and/or channels, and wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description.

15. The computer readable medium of claim 14, wherein each of the digits are selected using one or more arrow keys and a select button.

16. The computer readable medium of claim 15, wherein the remote control does not have a key corresponding to each of the digits.

17. The computer readable medium of claim 13, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, and wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program.

18. The computer readable medium of claim 13, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits.

19. The method of claim 5, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes.

20. The television of claim 11, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055288

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claims 2, 8, 14, Yu further teaches wherein the remote control selects keys (the user selects any of the listed TV content by activating a selection button on the remote control device, para 0122) and wherein the EPG information corresponds to multiple programs and/or channels (fig. 18 displays a content listing area 1820 [electronic program guide includes multiple programs and/or channels] which lists the available contents with the time slots which includes the programming channels, which the users can highlights/select a particular content using an input device which upon selection delivers the content, para 0119, 0123), and wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description (fig. 18 displays a content listing area 1820 [electronic program guide includes multiple programs and/or channels] which lists the available contents with the time slots [airtime] which includes the programming channels, which the users can highlights/select a particular content 1822 "Lost" [includes the program name] 1812 displays the program channel "abc" and further 1824 [program description] provides detailed information of the selected content listing, para 0119, 0123), but lacks the teaching of wherein the digits range from 0 to 9, wherein the remote control selects the digits using non-numeric keys. Furthermore, to establish the selected key on the remote control to be a non-numeric key would have been a matter of design choice and would have been a known practice in the art. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine wherein the remote control selects using non-numeric keys as taught by Yu. The motivation would have been to provide users with an optimized experience for accessing the program contents.
Hill is in the field of a TV display 28 which displays a soft number pad used to receive inputs for channel selection (see para 0119) and teaches selects the digits on a display and wherein the digits range from 0 to 9 (fig.1 shows a TV display 28 and a broadcast EPG is displayed on the display 28, para 0014; figs. 2 & 7 shows an image button 62 which can be selected by the user to display an electronic programing guide to be presented on the display 28, further the display 28 displays a soft number pad 310 which allows the viewer to select any number from zero to nine to input to select/tune to a specific channel number, para 0019). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Hill to incorporate wherein the digits range from 0 to 9, wherein the remote control selects the digits using non-numeric keys into the invention of Yu. The motivation would have been to provide a touch interface for an optimized user experience (see para 0004).

Regarding claims 3, 9, 15, Yu further teaches wherein each of the digits are selected using one or more arrow keys and a select button (figs.34 & 35 shows a user is presented with an alphanumeric tool 3410, 3510 which the user uses to type in a search query "12 Monkeys" 3422 [each of the digits are selected] using the remote control device, para 0140; a user using the conventional television remote control device using a keyboard arrow buttons to select the options on the display, para 0115; the user selects any of the listed TV content by activating a selection button on the remote control device, para 0122).

Regarding claims 4, 10, 16, Yu further teaches wherein the remote control does not have a key corresponding to each of the digits (figs.34 & 35 shows a user is presented with an alphanumeric tool 3410, 3510 which the user uses to type in a search query "12 Monkeys" 3422 [each of the digits are selected] using the remote control device, para 0140; a user using the conventional television remote control device using a keyboard arrow buttons to select the options on the display [as arrow keys are used on the remote control device it is interpreted as remote control does not have a key corresponding to each of the digits], para 0115).

Regarding claims 5, 11, 17, Yu further teaches wherein the on screen channel changer comprises
a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description (fig. 18 displays a content listing area 1820 [electronic program guide includes multiple programs and/or channels] which lists the available contents with the time slots [airtime] which includes the programming channels, which the users can highlights/select a particular content 1822 "Lost" [includes the program name] 1812 displays the program channel "abc" and further 1824 [program description] provides a thumbnail preview [graphical image] and 1826 provides detailed information of the selected content listing, para 0119, 0123), and wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program (1824 shows a graphical image is a photograph related to the programming channel selected by the user, para 0123).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2013/055288

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

Regarding claims 6, 12, 18, Yu further teaches wherein, the application framework updates the EPG information to include only those programs and/or channels selectable (fig. 20 displays a TV portal 2012 which displays a listing of television content which can be accessed by the user, and displays an electronic/interactive programing guide (EPG) on a user selection platform 140, and further the user selects the listed TV content by position the selection box 2022 using the remote control device and upon the selection of 2022 the user is presented with fig.21 wherein the display 2100 provides the user with an option to select 2122 upon the selection of that button the user is enable to watch the content [upon the selection of 2022 to provide the display screen 2100 is interpreted as updates the EPG information], para 0086, 0122), but lacks the teaching of wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits
Hill is in the field of a TV display 28 which displays a soft number pad used to receive inputs for channel selection (see para 0119) and teaches as the user selects each digit and the programs and/or channels selectable from the selected digits (fig.1 shows a TV display 28 and a broadcast EPG is displayed on the display 28, para 0014; figs. 2 & 7 shows an image button 62 which can be selected by the user to display an electronic programing guide to be presented on the display 28, further the display 28 displays a soft number pad 310 which allows the viewer to select any number from zero to nine to input to select/tune to a specific channel number, para 0019). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the teachings of Hill to incorporate wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits into the invention of Yu. The motivation would have been to provide a touch interface for an optimized user experience (see para 0004).

Regarding claim 19, Yu further teaches wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes (fig.18 shows an EPG with 1824 [graphical image] and further when the pointing device is moved in proximity to a particular content item listing in content listing area 1820, the particular content item listing is highlighted and the content information associated with the highlighted content item listing is displayed in an expanded form [as the user selects different contents each contents image is displayed interpreted as thumbnail preview changes as the in focus] of the highlighted content item listing as shown in FIG. 18, para 0119).

Regarding claim 20, Yu further teaches, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes (fig.18 shows an EPG with 1824 [graphical image] and further when the pointing device is moved in proximity to a particular content item listing in content listing area 1820, the particular content item listing is highlighted and the content information associated with the highlighted content item listing is displayed in an expanded form [as the user selects different contents each contents image is displayed interpreted as thumbnail preview changes as the in focus] of the highlighted content item listing as shown in FIG. 18, para 0119).

Claims 1-20 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Electronic Acknowledgement Receipt

EFS ID:	21961118
Application Number:	13968884
International Application Number:	
Confirmation Number:	1062
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Customer Number:	111285
Filer:	Douglas W. Swartz/Theresa Brown
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-445
Receipt Date:	02-APR-2015
Filing Date:	16-AUG-2013
Time Stamp:	20:45:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		6583-445_SB08_06.pdf	149943 042accabe9d52f982c5a1d5a9b8f2831ef43d12a	yes	4

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	3
	Information Disclosure Statement (IDS) Form (SB08)	4	4
Warnings:			
Information:			

2	Non Patent Literature	6583-445-PCT_IPRP_02-26-2015.pdf	1659153 5d24a79c7918660773d1aa8954cc96d78f1be6cd	no	10
Warnings:					
Information:					
		Total Files Size (in bytes):	1809096		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2426
Mohammed Selim	)	Confirmation No.: 1062
Serial No.: 13/968,884	)	Examiner: Adil Ocak
Filed: August 16, 2013	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-445	)	
Entitled: "On Screen Method and System for Changing Television Channels"	)	*Electronically Submitted*

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☐ Examiner's attention is drawn to the following related applications:

Serial No. _____ filed _____ (Attorney Ref. No. _____)

Serial No. _____ filed _____ (Attorney Ref. No. _____)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence

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of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☐	**37 CFR 1.97(b)**: No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, or ☐ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	**37 CFR 1.97(c)**: The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of any one of the following conditions: (1) a final action under 37 C.F.R. 1.113, or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of $180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☒	**37 CFR 1.97(d)**: This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☒ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☒ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of $180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

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Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☒ The undersigned certifies that:

☒ Each item of information contained in the Information Disclosure Statement submitted herewith was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☒ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: April 2, 2015

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2426
	)	
Mohammed Selim	)	Confirmation No.: 1062
	)	
Serial No.: 13/968,884	)	Examiner: Adil Ocak
	)	
Filed: August 16, 2013	)	
	)	*Electronically Submitted*
Atty. File No.: 6583-445	)	
	)	
Entitled: "On Screen Method and System for Changing Television Channels"	)	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

Commissioner:

Applicant submits these Comments on Statement of Reasons for Allowance to address further the Notice of Allowability ("Notice") having a mailing date of January 5, 2015.

In the Notice, the Examiner's stated reasons for allowance were that:

> Independent Claims 1, 7, and 12 are considered allowable since when reading the claims in light of the specification, as per MPEP §2111.01 or In re Sneed, 710 F.2d 1544, 1548,218 USPQ 385, 388 (Fed. Cir. 1983), none of the references of record alone or in combination disclose or suggest the combination of limitations specified in independent claim 1, including "receiving, wirelessly by at least one of an infrared and radio frequency module of a television and from a remote control, a request to change a programming channel; displaying, by a microprocessor executable application framework and on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide CEPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9; receiving, by the application framework and from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and changing, by the application

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framework, to the selected channel, wherein the remote control comprises: a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, and internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media; an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms; an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon; and a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser system settings, and information associated therewith".

The examiner has found that the prior art(s) does not appear to teach or suggest or render obvious the claimed limitation(s) in combination with the specific added limitations as recited in independent claim(s). The prior art of record fail(s) to teach or suggest individually or in combination the independent claims.

The closest art cited in the case includes Carolynn Rae Johnson (Pat. No. US 7,506,350 B2) which discloses an IR receiver receiving wirelessly from a remote control a request to change channels using channel up and down button. Johnson discloses an on screen channel changer comprising EPG information and a number input bar with digits. Johnson also discloses a CPU that executes control programs contained within memory in response to commands provided by a user. Reference James W. Wiede (Pat. No. US 8,089,455 B1) teaches a channel selection mode where an active-display shows a virtual-keyboard (number input bar) with the numbers 0 thru 9. Reference Heo et al. (US 20110055873 A 1) teaches a user interface manager that controls a virtual keyboard to be displayed on the screen where the user can select number 0-9 contained in the virtual keyboard.

Johnson, Wiede, and Heo separate or in combination fail to teach a remote control comprising a media center button, an application center button, an application panel button, and a global panel button. Where the media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, and internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media. The application center button that, when selected, provides, by the

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> television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms. The application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon. And the global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser system settings, and information associated therewith.
>
> Therefore, it is the concept of a remote control comprising a media center button, an application center button, an application panel button, and a global panel button where each provides the functions as described above that Examiner finds to be novel.
>
> Claims 7 and 12 are considered allowable for the same reasons stated above for claim 1. The dependent claims 2-6, 8-11, 13-17, and 20-21 are allowed because they further limit independent claims 1, 7 and 12.

Based on the Notice, the patentability of all other independent and dependent claims is assumed to be based upon the elements as set forth in such claims and that such claims meet all criteria for patentability under §101, §102, §103 and §112.

As is clear from MPEP 1302.14,

> "The statement [of reasons for allowance] is not intended to necessarily state all the reasons for allowance or all the details why claims are allowed and should not be written to specifically or impliedly state that all the reasons for allowance are set forth."

While the above statement may be a stated reason for allowing some independent claims, Applicant submits that some independent claims may have a different reason for allowance and/or that some independent claims may have other reasons for allowance.

Specifically, the prior art fails to teach the following features of Claims 1, 7 and 12:

> 1. A method, comprising:
>
> receiving, wirelessly by at least one of an infrared and radio frequency module of a television and from a remote control, a request to change a programming channel;
>
> displaying, by a microprocessor executable application framework and on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9;

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receiving, by the application framework and from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and

changing, by the application framework, to the selected channel, wherein the remote control comprises:

a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, and internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media;

an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms;

an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon; and

a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser system settings, and information associated therewith.

7. A television, comprising:

a television screen;

at least one of an infrared and radio frequency module configured to receive wirelessly requests from a remote control of a user, the requests comprising a selected channel or program from a displayed listing; and

a microprocessor executable application framework configured to:

receive a request to change a programming channel, display, on the television screen, an on screen channel changer, the on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9,

receive, from the remote control and using the on screen channel changer, a channel selection of a user based on digits in the number input bar, wherein the user selects the digits from the number input using non-numeric keys on the remote control, and

change to the selected channel, wherein the remote control comprises:

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a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, internal computational devices, and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media;

an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms;

an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected application icon; and

a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and information associated therewith.

12. A tangible and non-transient computer readable medium, comprising microprocessor executable instructions that, when executed, are configured to perform operations comprising:

instructions to receive, from a remote control of a user, a request to change a programming channel;

instructions to display, on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9;

instructions to receive, from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and

instructions to change to the selected channel, wherein the remote control comprises:

a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, internal computational devices, and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media;

an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications;

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an application panel button that, when selected, displays, by the television screen, an application panel; and

a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and information associated therewith.

Although the Applicant believes that no fees are due for filing these Comments on Statement of Reasons for Allowance, please charge any fees deemed necessary to Deposit Account No. 19-1970.

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: April 2, 2015

EX. 1002
LG Electronics, Inc. / Page 267 of 3523

Electronic Acknowledgement Receipt

EFS ID:	21961140
Application Number:	13968884
International Application Number:	
Confirmation Number:	1062
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Customer Number:	111285
Filer:	Douglas W. Swartz/Theresa Brown
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-445
Receipt Date:	02-APR-2015
Filing Date:	16-AUG-2013
Time Stamp:	20:49:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Post Allowance Communication - Incoming	Comments_on_Reasons_for_Allowance.pdf	41713 19b1a1f74f448a0428bf3b7cd3323eab0276bfbb	no	6

Warnings:	
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National Stage of an International Application under 35 U.S.C. 371
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New International Application Filed with the USPTO as a Receiving Office
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13968884	SELIM, MOHAMMED
	Examiner	Art Unit
	ADIL OCAK	2426

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Text EAST search - US-PGPUB, USPAT, USOCR, EPO, JPO, DERWENT	6/12/2014	AO
Inventor name search	6/12/2014	AO
IEEE search	6/12/2014	AO
Provisional and Double Patent	6/12/2014	AO
NPL search	6/12/2014	AO
See search history printout	6/12/2014	AO
See additional search history printout	12/24/2014	AO

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
USPGPub	Independent claim keywords.clm.	12/24/2014	AO

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/968,884	08/16/2013	Mohammed Selim	6583-445	1062

111285 7590 04/01/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
OCAK, ADIL	

ART UNIT	PAPER NUMBER
2426	

NOTIFICATION DATE	DELIVERY MODE
04/01/2015	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

flexpatents@sheridanross.com
edocket@sheridanross.com

Corrected Notice of Allowability	**Application No.** 13/968,884	**Applicant(s)** SELIM, MOHAMMED	
	Examiner ADIL OCAK	**Art Unit** 2426	**AIA (First Inventor to File) Status** Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *9/24/2014*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-17,20 and 21*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 8/1/2014, 11/14/2014, 2/17/2015
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☒ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/ADIL OCAK/
Examiner, Art Unit 2426

1) The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR Page 21.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Doug Swartz (Reg. No: 37,739) on December 17, 2014.

The application has been amended based on the amendment filed on 09/24/2014 as follows:

1. (Currently Amended) A method, comprising:

receiving, wirelessly by at least one of an infrared and radio frequency module of a television and from a remote control, a request to change a programming channel;

displaying, by a microprocessor executable application framework and on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9;

receiving, by the application framework and from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and

changing, by the application framework, to the selected channel, wherein the remote control comprises:

a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, and internal and external computational devices, the computational devices comprising one or more of

personal computers, laptops, tablet computers, wireless phones, and removable computer readable media;

an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms;

an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon; and

a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser system settings, and information associated therewith.

2. (Currently Amended) The method of claim 1, wherein the EPG information corresponds to multiple programs and/or channels, wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description~~, wherein the remote control comprises a media center button that, when selected, provides, by the television screen, displayed information regarding groupings of music, videos, and/or photographs, and/or internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media~~.

3. (Currently Amended) The method of claim 1, wherein each of the digits are selected using one or more arrow keys and a select button~~, wherein the remote control further comprises an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms, wherein the remote control further comprises an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel~~

~~regarding a selected (pre-installed or previously downloaded) application icon,~~ and wherein the information panel comprises one or more of identify the selected application, provide a description of the functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to favorites the selected application, and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application.

4. (Currently Amended) The method of claim 1, wherein the remote control does not have a key corresponding to each of the digits~~, wherein the remote control further comprises a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and/or information associated therewith~~.

5. (Previously Presented) The method of claim 1, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, wherein the EPG information and graphical image are provided by an electronic program guide service, and wherein the remote control further comprises plural hotkeys, the functions of each of the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen.

6. (Previously Presented) The method of claim 1, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels

selectable from the selected digits and wherein the remote control further comprises a moveable joystick that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount.

7. (Currently Amended) A television, comprising:

a television screen;

at least one of an infrared and radio frequency module configured to receive wirelessly requests from a remote control of a user, the requests comprising a selected channel or program from a displayed listing; and

a microprocessor executable application framework configured to:

receive a request to change a programming channel, display, on the television screen, an on screen channel changer, the on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9,

receive, from the remote control and using the on screen channel changer, a channel selection of a user based on digits in the number input bar, wherein the user selects the digits from the number input using non-numeric keys on the remote control, and

change to the selected channel, wherein the remote control comprises:

a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, internal computational devices, and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media;

an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms;

an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected application icon; and

a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and information associated therewith.

8. (Currently Amended) The television of claim 7, wherein each of the digits are selected using one or more arrow keys and a select button, ~~wherein the remote control further comprises an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms,~~ wherein the ~~remote control further comprises an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a~~ selected ~~(~~is associated with a pre-installed or previously downloaded~~)~~ application icon, and wherein the information panel comprises one or more of identify the selected application, provide a description of the functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to favorites the selected application, and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application.

9. (Currently Amended) The television of claim 7, wherein the remote control does not have a key corresponding to each of the digits~~, wherein the remote control further comprises a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and/or information associated therewith~~.

10. (Previously Presented) The television of claim 7, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, wherein the EPG information and graphical image are provided by an electronic program guide service, and wherein the remote control further comprises plural hotkeys, the functions of each of the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen.

11. (Previously Presented) The television of claim 7, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits and wherein the remote control further comprises a moveable joystick that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount.

12. (Currently Amended) A tangible and non-transient computer readable medium, comprising microprocessor executable instructions that, when executed, are configured to perform operations comprising:

instructions to receive, from a remote control of a user, a request to change a programming channel;

instructions to display, on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide (“EPG”) information and a number input bar comprising digits, wherein the digits range from 0 to 9;

instructions to receive, from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and

instructions to change to the selected channel, wherein the remote control comprises:

a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, internal computational devices, and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media;

an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications;

an application panel button that, when selected, displays, by the television screen, an application panel; and

a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and information associated therewith.

13. (Currently Amended) The computer readable medium of claim 12, wherein the EPG information corresponds to multiple programs and/or channels, and wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description~~, wherein the remote control comprises a media center button that, when selected, provides, by the television screen, displayed information regarding groupings of music, videos, and/or photographs, and/or internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media~~.

14. (Currently Amended) The computer readable medium of claim 12, ~~wherein the remote control further comprises an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications,~~ wherein the

downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms, ~~wherein the remote control further comprises an application panel button that, when selected, displays, by the television screen, an application panel,~~ wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon, and wherein the information panel comprises one or more of identify the selected application, provide a description of the functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to favorites the selected application, and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application.

15. (Currently Amended) The computer readable medium of claim 12, wherein the remote control does not have a key corresponding to each of the digits~~, wherein the remote control further comprises a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and/or information associated therewith~~.

16. (Previously Presented) The computer readable medium of claim 12, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image are provided by an electronic program guide service, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, and wherein the remote control further comprises plural hotkeys, the functions of each of the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen.

17. (Previously Presented) The computer readable medium of claim 12, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits and wherein the remote control further comprises a moveable joystick that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount.

18. (Canceled)

19. (Canceled)

20. (Previously Presented) The television of claim 7, wherein the EPG information corresponds to multiple programs and/or channels, wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description, wherein the remote control comprises a media center button that, when selected, provides, by the television screen, displayed information regarding groupings of music, videos, and/or photographs, and/or internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media.

21. (Previously Presented) The method of claim 1, wherein the remote control further comprises a social network button that, when selected, automatically selects content and publishes, via a social network service or other social media, the content to a social network or online community wherein, by the remote control, a social volume visualization can be adjusted whereby the screen displayes a dynamic visualization of aggregated connections and/or inbound and/or outbound messages from a variety of social networks, the aggregation and/or inbound and/or outbound messages being depicted graphically on the screen as a volume of connections to influence the user, wherein, by the social volume visualization, selected contents of each linked social network profile of a social contact and/or inbound and/or outbound messages from or to the linked social network contact and/or current activity of the social contact is presented in a separate tile and/or visually displayed object, and wherein, by turning the

social volume up or down, the user increases or decreases a size and/or numbers of linked contact tiles displayed by the screen to the viewer, whereby increasing the social volume enables the user to view, access, and/or push more social content from selected social networks associated with the user and decreasing the social volume enables the user to view, access, and/or push less social content from selected social networks associated with the user.

Allowable Subject Matter

3. Claims 1-17 and 20-21 are allowed.

4. The following is an examiner's statement of reasons for allowance:

Independent Claims 1, 7, and 12 are considered allowable since when reading the claims in light of the specification, as per MPEP §2111.01 or In re Sneed, 710 F.2d 1544, 1548,218 USPQ 385, 388 (Fed. Cir. 1983), none of the references of record alone or in combination disclose or suggest the combination of limitations specified in independent claim 1, including "receiving, wirelessly by at least one of an infrared and radio frequency module of a television and from a remote control, a request to change a programming channel; displaying, by a microprocessor executable application framework and on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9; receiving, by the application framework and from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and changing, by the application framework, to the selected channel, wherein the remote control comprises: a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, and internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media; an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software

applications comprise one or more of a web browser, settings control, and content search algorithms; an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon; and a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser system settings, and information associated therewith".

The examiner has found that the prior art(s) does not appear to teach or suggest or render obvious the claimed limitation(s) in combination with the specific added limitations as recited in independent claim(s). The prior art of record fail(s) to teach or suggest individually or in combination the independent claims.

The closest art cited in the case includes Carolynn Rae Johnson (Pat. No. US 7,506,350 B2) which discloses an IR receiver receiving wirelessly from a remote control a request to change channels using channel up and down button. Johnson discloses an on screen channel changer comprising EPG information and a number input bar with digits. Johnson also discloses a CPU that executes control programs contained within memory in response to commands provided by a user. Reference James W. Wiede (Pat. No. US 8,089,455 B1) teaches a channel selection mode where an active-display shows a virtual-keyboard (number input bar) with the numbers 0 thru 9. Reference Heo et al. (US 20110055873 A1) teaches a user interface manager that controls a virtual keyboard to be displayed on the screen where the user can select number 0-9 contained in the virtual keyboard.

Johnson, Wiede, and Heo separate or in combination fail to teach a remote control comprising a media center button, an application center button, an application panel button, and a global panel button. Where the media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, and internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media. The application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded

software applications comprise one or more of a web browser, settings control, and content search algorithms. The application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon. And the global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser system settings, and information associated therewith.

Therefore, it is the concept of a remote control comprising a media center button, an application center button, an application panel button, and a global panel button where each provides the functions as described above that Examiner finds to be novel.

Claims 7 and 12 are considered allowable for the same reasons stated above for claim 1. The dependent claims 2-6, 8-11, 13-17, and 20-21 are allowed because they further limit independent claims 1, 7 and 12.

Conclusion

5. Independent claims 1, 7, and 22 are allowed and the dependent claims 2-6, 8-11, 13-17, and 20-21 are allowed.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adil Ocak whose telephone number is (571) 272-2774. The examiner can normally be reached on 8am-5pm, M-F, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Goodarzi can be reached on (571) 272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ADIL OCAK/
Examiner, Art Unit 2426

/NASSER GOODARZI/
Supervisory Patent Examiner, Art Unit 2426

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	13/968,884	SELIM, MOHAMMED	
	Examiner	Art Unit	
	ADIL OCAK	2426	

All participants (applicant, applicant's representative, PTO personnel):

(1) *ADIL OCAK*. (3)_____.

(2) *DOUG SWARTZ*. (4)_____.

Date of Interview: *17 December 2014*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☒103 ☐Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *1, 7, and 12*.

Identification of prior art discussed: *Johnson (Pat No US 7,506,350), Wieder (Pat No US 8,089,455), Heo (US 20110055873)*.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Discussed claims and Examiner proposed amendments to claims.

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/ADIL OCAK/ Examiner, Art Unit 2426	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13968884	SELIM, MOHAMMED
	Examiner	**Art Unit**
	ADIL OCAK	2426

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	06/12/2014	06/12/2014	12/24/2014						
1	1	✓		=						
2	2	✓		=						
3	3	✓		=						
4	4	✓		=						
5	5	✓		=						
6	6	✓		=						
8	7	✓		=						
9	8	✓	O	=						
10	9	✓	O	=						
11	10	✓		=						
12	11	✓		=						
14	12	✓		=						
15	13	✓	O	=						
16	14	✓	O	=						
17	15	✓	O	=						
18	16	✓		=						
19	17	✓		=						
	18	✓		-						
	19	✓		-						
13	20			=						
7	21			=						

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
(Use as many sheets as necessary)				First Named Inventor	Mohammed Selim
				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	1	of	4	Attorney Docket Number	6583-445

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	5734444	03/31/1998	Yoshinobo	
	2	6285804	09/04/2001	Crinon et al.	
	3	6493876	12/10//202	DeFreese et al.	
	4	6515968	02/04/2003	Combar et al.	
	5	7058600	06/06/2006	Combar et al.	
	6	8566874	10/22/2013	Roberts et al.	
	7	8589981	11/19/2013	Lee et al.	
	8	8832742	09/09/2014	Rasanen et al.	
	9	2002/0042914	04/11/2002	Walker et al.	
	10	2002/0052746	05/02/2002	Handelman	
	11	2003/0014752	01/16/2003	Zaslavsky et al.	
	12	2003/0149988	08/07/2003	Ellis et al.	
	13	2004/0078807	04/22/2004	Fries et al.	
	14	2004/0154040	08/05/2004	Ellis	
	15	2005/0097606	05/05/2005	Scott, III et al.	
	16	2005/0097622	05/05/2005	Zigmond et al.	
	17	2005/0204382	09/15/2005	Ellis et al.	
	18	2005/0204387	09/15/2005	Knudson et al.	
	19	2005/0229210	10/13/2005	Akhavan	
	20	2006/0123445	06/08/2006	Sullivan et al.	
	21	2007/0162936	07/12/2007	Stallings et al.	
	22	2008/0271080	10/30/2008	Gossweiler et al.	
	23	2008/0313677	12/18/2008	Lee	
	24	2009/0102966	04/23/2009	Jiang et al.	
	25	2009/0125940	05/14/2009	Kim et al.	
	26	2009/0165045	06/25/2009	Stallings et al.	
	27	2009/0199241	08/06/2009	Unger et al.	
	28	2009/0313232	12/17/2009	Tinsley et al.	
	29	2010/0128183	05/27/2010	Ishii	
	30	2010/0191727	07/29/2010	Malik	
	31	2010/0306800	12/02/2010	Jung et al.	
	32	2011/0043696	02/24/2011	Onogi et al.	

Examiner Signature	/Adil Ocak/	Date Considered	03/25/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.O./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	2	of	4	Attorney Docket Number	6583-445

	33	2011/0283318	11/17/2011	Seidel et al.	
	34	2012/0026400	02/02/2012	Kang et al.	
	35	2012/0054803	03/01/2012	Lee et al.	
	36	2012/0133840	05/31/2012	Shirasuka et al.	
	37	2012/0143972	06/07/2012	Malik et al.	
	38	2012/0167154	06/28/2012	Kim et al.	
	39	2012/0194742	08/02/2012	Barnes et al.	
	40	2012/0210367	08/16/2012	Lee et al.	
	41	2012/0272271	10/25/2012	Nishizawa et al.	
	42	2012/0278725	11/01/2012	Gordon et al.	
	43	2012/0284751	11/08/2012	Kim et al.	
	44	2013/0034023	02/07/2013	Jung	
	45	2013/0047174	02/21/2013	Lee et al.	
	46	2013/0091053	04/11/2013	Park et al.	
	47	2013/0148023	06/13/2013	Sullivan et al.	
	48	2013/0152135	06/13/2013	Hong et al.	
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Examiner Signature	/Adil Ocak/	Date Considered	03/25/2015

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				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
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Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13968884	SELIM, MOHAMMED
	Examiner	**Art Unit**
	ADIL OCAK	2426

CPC										
Symbol									**Type**	**Version**
H04N	/	5	/	4401					F	2013-01-01
H04N	/	17	/	04					I	2013-01-01
H04N	/	5	/	4403					I	2013-01-01
H04N	/	21	/	4823					I	2013-01-01
H04N	/	5	/	50					I	2013-01-01
H04N	/	21	/	4307					I	2013-01-01
H04N	/	21	/	26291					I	2013-01-01
H04N	/	21	/	437					I	2013-01-01
H04N	/	21	/	4622					I	2013-01-01
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/ADIL OCAK/ Examiner.Art Unit 2426	12/24/2014	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	19	
/NASSER GOODARZI/ Supervisory Patent Examiner.Art Unit 2426	12/24/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

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CPC Combination Sets				
Symbol	**Type**	**Set**	**Ranking**	**Version**

/ADIL OCAK/ Examiner.Art Unit 2426	12/24/2014	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	19	
/NASSER GOODARZI/ Supervisory Patent Examiner.Art Unit 2426	12/24/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

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US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
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CROSS REFERENCE(S)		G	0	6	F	3 / 00						
		G	0	6	F	13 / 00						

CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
725	41	43	45		

/ADIL OCAK/ Examiner.Art Unit 2426 (Assistant Examiner)	12/24/2014 (Date)	**Total Claims Allowed:** 19	
/NASSER GOODARZI/ Supervisory Patent Examiner.Art Unit 2426 (Primary Examiner)	12/24/2014 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1A

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☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

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/ADIL OCAK/ Examiner.Art Unit 2426	12/24/2014	**Total Claims Allowed:**	
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				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
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Examiner Signature	/ADIL OCAK/	Date Considered	03/25/2015

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AO/

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	4	of	4	Attorney Docket Number	6583-445

	77	Official Action for U.S. Patent Application No. 13/968,767, mailed Jan. 22, 2015 (Attorney's Ref. No. 6583-479) 15 pages
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Examiner Signature	/ADIL OCAK/	Date Considered	03/25/2015

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				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	1	of	4	Attorney Docket Number	6583-445

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Examiner Initials*	Cite No.[1]	Document Number Number-kind Code [2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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				Examiner Name	Adil Ocak
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Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

NON-PATENT LITERATURE DOCUMENTS

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				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	3	of	4	Attorney Docket Number	6583-445

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	59	Official Action for U.S. Patent Application No. 13/970,388, mailed Jan. 22, 2015 (Attorney's Ref. No. 6583-436) 12 pages
	60	Notice of Allowance for U.S. Patent Application No. 13/970,398, mailed Feb. 02, 2015 (Attorney's Ref. No. 6583-437) 14 pages
	61	Official Action for U.S. Patent Application No. 13/970,409, mailed Feb. 11, 2015 (Attorney's Ref. No. 6583-438) 25 pages
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Electronic Patent Application Fee Transmittal

Application Number:	13968884
Filing Date:	16-Aug-2013
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Filer:	Douglas W. Swartz/Robert Roe-Pachirat
Attorney Docket Number:	6583-445

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt	
EFS ID:	21521553
Application Number:	13968884
International Application Number:	
Confirmation Number:	1062
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Customer Number:	111285
Filer:	Douglas W. Swartz/Robert Roe-Pachirat
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-445
Receipt Date:	17-FEB-2015
Filing Date:	16-AUG-2013
Time Stamp:	19:03:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	4104
Deposit Account	191970
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

File Listing:

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1		6583-445_IDS_04.pdf	333372 6e3c0fedba66d1466c335a4c1ee3306e3bfc8bee	yes	7
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Transmittal Letter		1	3	
	Information Disclosure Statement (IDS) Form (SB08)		4	7	
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2	Non Patent Literature	6583-436_OA_01-22-2015.pdf	366463 be12d9ed7e8a090bc69ece8280741a4de277d466	no	12
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Warnings:					
Information:					
26	Non Patent Literature	6583-495_OA_01-05-2015.pdf	407920 b4a6982a37e6c02a8a2866e0f2a67df5eb2c3f64	no	13
Warnings:					
Information:					
27	Non Patent Literature	6583-496_OA_12-26-2014.pdf	370706 d1f715aba1ddaf7b8291de3e2880f638a47caa16	no	13
Warnings:					
Information:					
28	Non Patent Literature	6583-498_NOA_01-06-2015.pdf	388054 2e209c7e2dfc6784e332feb1e67ec9e646659ed7	no	6
Warnings:					
Information:					
29	Non Patent Literature	6583-499_OA_12-31-2014.pdf	240315 9eabe1fe61ce12be21b240c49bc33ac712afa7c8	no	7
Warnings:					
Information:					
30	Non Patent Literature	6583-500_OA_12-26-2014.pdf	455305 21a2589b248f26227b8971580dd8f1a97288e50e	no	13
Warnings:					
Information:					
31	Non Patent Literature	6583-501_OA_01-08-2015.pdf	344817 47f482c4abda6303f2f97ddc706f77d2c2b5cf8b	no	11
Warnings:					
Information:					
32	Non Patent Literature	6583-504_OA_11-19-2014.pdf	341961 553f19f651eaf8bb0868db8fd5491c7e766ce0a8	no	11
Warnings:					
Information:					
33	Non Patent Literature	6583-508_OA_01-27-2015.pdf	998600 91efbdf861c3a3d8f510b8bc2a63ab1950fbd8b9	no	30
Warnings:					
Information:					

34	Non Patent Literature	6583-509_OA_12-18-2014.pdf	278543 8d3d82a48ea1ab6a0a3af9dabc5453954f17cca6	no	9
Warnings:					
Information:					
35	Non Patent Literature	6583-519_OA_01-22-2015.pdf	450059 0a4b44019ccad70bfa32bb7424c023c5a9da3142	no	14
Warnings:					
Information:					
36	Non Patent Literature	6583-520_OA_12-22-2014.pdf	648286 24be919f25401089f54a4ca207c249bb6bfa189a	no	20
Warnings:					
Information:					
37	Fee Worksheet (SB06)	fee-info.pdf	30824 ca850f04b95e74d435df32634c1e0e502b67682e	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	17571625		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2426
Mohammed Selim	)	Confirmation No.: 1062
Serial No.: 13/968,884	)	Examiner: Adil Ocak
Filed: August 16, 2013	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-445	)	
Entitled: "On Screen Method and System for Changing Television Channels"	)	*Electronically Submitted*

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☐ Examiner's attention is drawn to the following related applications:

Serial No. _____ filed _____ (Attorney Ref. No. _____)

Serial No. _____ filed _____ (Attorney Ref. No. _____)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence

EX. 1002
LG Electronics, Inc. / Page 312 of 3523

of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☐	**37 CFR 1.97(b)**: No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, or ☐ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	**37 CFR 1.97(c)**: The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of any one of the following conditions: (1) a final action under 37 C.F.R. 1.113, or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of $180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☒	**37 CFR 1.97(d)**: This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☒ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☒ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of $180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

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LG Electronics, Inc. / Page 313 of 3523

Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☒ The undersigned certifies that:

☐ Each item of information contained in the Information Disclosure Statement submitted herewith was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☒ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: February 17, 2015

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

111285 7590 01/05/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
OCAK, ADIL

ART UNIT	PAPER NUMBER
2426	

DATE MAILED: 01/05/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/968,884	08/16/2013	Mohammed Selim	6583-445	1062

TITLE OF INVENTION: ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	04/06/2015

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

111285 7590 01/05/2015
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/968,884	08/16/2013	Mohammed Selim	6583-445	1062

TITLE OF INVENTION: ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	04/06/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
OCAK, ADIL	2426	725-056000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:
- ❑ Issue Fee
- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

EX. 1002
LG Electronics, Inc. / Page 316 of 3523

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/968,884	08/16/2013	Mohammed Selim	6583-445	1062

111285 7590 01/05/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
OCAK, ADIL	
ART UNIT	PAPER NUMBER
2426	

DATE MAILED: 01/05/2015

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	13/968,884	SELIM, MOHAMMED	
	Examiner	Art Unit	
	ADIL OCAK	2426	

All participants (applicant, applicant's representative, PTO personnel):

(1) *ADIL OCAK*. (3)_____.

(2) *DOUG SWARTZ*. (4)_____.

Date of Interview: *17 December 2014*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☒103 ☐Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *1, 7, and 12*.

Identification of prior art discussed: *Johnson (Pat No US 7,506,350), Wieder (Pat No US 8,089,455), Heo (US 20110055873)*.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Discussed claims and Examiner proposed amendments to claims.

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/ADIL OCAK/ Examiner, Art Unit 2426	

Notice of Allowability	Application No. 13/968,884	Applicant(s) SELIM, MOHAMMED	
	Examiner ADIL OCAK	Art Unit 2426	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *9/24/2014*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-17,20 and 21*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 8/1/2014, 11/14/2014
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☒ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/ADIL OCAK/
Examiner, Art Unit 2426

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR Page 21.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Doug Swartz (Reg. No: 37,739) on December 17, 2014.

The application has been amended based on the amendment filed on 09/24/2014 as follows:

1. (Currently Amended) A method, comprising:

receiving, wirelessly by at least one of an infrared and radio frequency module of a television and from a remote control, a request to change a programming channel;

displaying, by a microprocessor executable application framework and on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9;

receiving, by the application framework and from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and

changing, by the application framework, to the selected channel, wherein the remote control comprises:

a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, and internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media;

an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms;

an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon; and

a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser system settings, and information associated therewith.

2. (Currently Amended) The method of claim 1, wherein the EPG information corresponds to multiple programs and/or channels, wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description~~, wherein the remote control comprises a media center button that, when selected, provides, by the television screen, displayed information regarding groupings of music, videos, and/or photographs, and/or internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media~~.

3. (Currently Amended) The method of claim 1, wherein each of the digits are selected using one or more arrow keys and a select button~~, wherein the remote control further comprises an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms, wherein the remote control further comprises an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon,~~ and wherein the information panel comprises one or more of identify the selected application, provide a description of the

functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to favorites the selected application, and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application.

4. (Currently Amended) The method of claim 1, wherein the remote control does not have a key corresponding to each of the digits~~, wherein the remote control further comprises a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and/or information associated therewith~~.

5. (Previously Presented) The method of claim 1, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, wherein the EPG information and graphical image are provided by an electronic program guide service, and wherein the remote control further comprises plural hotkeys, the functions of each of the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen.

6. (Previously Presented) The method of claim 1, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits and wherein the remote control further comprises a moveable joystick

that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount.

7. (Currently Amended) A television, comprising:

a television screen;

at least one of an infrared and radio frequency module configured to receive wirelessly requests from a remote control of a user, the requests comprising a selected channel or program from a displayed listing; and

a microprocessor executable application framework configured to:

receive a request to change a programming channel, display, on the television screen, an on screen channel changer, the on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9,

receive, from the remote control and using the on screen channel changer, a channel selection of a user based on digits in the number input bar, wherein the user selects the digits from the number input using non-numeric keys on the remote control, and

change to the selected channel, wherein the remote control comprises:

a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, internal computational devices, and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media;

an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms;

an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected application icon; and

a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and information associated therewith.

8. (Currently Amended) The television of claim 7, wherein each of the digits are selected using one or more arrow keys and a select button, ~~wherein the remote control further comprises an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms,~~ wherein the ~~remote control further comprises an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a~~ selected ~~(~~is associated with a pre-installed or previously downloaded~~)~~ application icon, and wherein the information panel comprises one or more of identify the selected application, provide a description of the functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to favorites the selected application, and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application.

9. (Currently Amended) The television of claim 7, wherein the remote control does not have a key corresponding to each of the digits~~, wherein the remote control further comprises a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and/or information associated therewith~~.

10. (Previously Presented) The television of claim 7, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, wherein the EPG information and graphical image are provided by an electronic program guide service, and wherein the remote control further comprises plural hotkeys, the functions of each of the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen.

11. (Previously Presented) The television of claim 7, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits and wherein the remote control further comprises a moveable joystick that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount.

12. (Currently Amended) A tangible and non-transient computer readable medium, comprising microprocessor executable instructions that, when executed, are configured to perform operations comprising:

instructions to receive, from a remote control of a user, a request to change a programming channel;

instructions to display, on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide (“EPG”) information and a number input bar comprising digits, wherein the digits range from 0 to 9;

instructions to receive, from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and

instructions to change to the selected channel, wherein the remote control comprises:

a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, internal computational devices, and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media;

an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications;

an application panel button that, when selected, displays, by the television screen, an application panel; and

a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and information associated therewith.

13. (Currently Amended) The computer readable medium of claim 12, wherein the EPG information corresponds to multiple programs and/or channels, and wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description~~, wherein the remote control comprises a media center button that, when selected, provides, by the television screen, displayed information regarding groupings of music, videos, and/or photographs, and/or internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media~~.

14. (Currently Amended) The computer readable medium of claim 12, ~~wherein the remote control further comprises an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications,~~ wherein the

downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms, ~~wherein the remote control further comprises an application panel button that, when selected, displays, by the television screen, an application panel,~~ wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon, and wherein the information panel comprises one or more of identify the selected application, provide a description of the functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to favorites the selected application, and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application.

15. (Currently Amended) The computer readable medium of claim 12, wherein the remote control does not have a key corresponding to each of the digits~~, wherein the remote control further comprises a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and/or information associated therewith~~.

16. (Previously Presented) The computer readable medium of claim 12, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image are provided by an electronic program guide service, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, and wherein the remote control further comprises plural hotkeys, the functions of each of the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen.

17. (Previously Presented) The computer readable medium of claim 12, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits and wherein the remote control further comprises a moveable joystick that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount.

18. (Canceled)

19. (Canceled)

20. (Previously Presented) The television of claim 7, wherein the EPG information corresponds to multiple programs and/or channels, wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description, wherein the remote control comprises a media center button that, when selected, provides, by the television screen, displayed information regarding groupings of music, videos, and/or photographs, and/or internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media.

21. (Previously Presented) The method of claim 1, wherein the remote control further comprises a social network button that, when selected, automatically selects content and publishes, via a social network service or other social media, the content to a social network or online community wherein, by the remote control, a social volume visualization can be adjusted whereby the screen displayes a dynamic visualization of aggregated connections and/or inbound and/or outbound messages from a variety of social networks, the aggregation and/or inbound and/or outbound messages being depicted graphically on the screen as a volume of connections to influence the user, wherein, by the social volume visualization, selected contents of each linked social network profile of a social contact and/or inbound and/or outbound messages from or to the linked social network contact and/or current activity of the social contact is presented in a separate tile and/or visually displayed object, and wherein, by turning the

social volume up or down, the user increases or decreases a size and/or numbers of linked contact tiles displayed by the screen to the viewer, whereby increasing the social volume enables the user to view, access, and/or push more social content from selected social networks associated with the user and decreasing the social volume enables the user to view, access, and/or push less social content from selected social networks associated with the user.

Allowable Subject Matter

3. Claims 1-17 and 20-21 are allowed.

4. The following is an examiner's statement of reasons for allowance:

Independent Claims 1, 7, and 12 are considered allowable since when reading the claims in light of the specification, as per MPEP §2111.01 or In re Sneed, 710 F.2d 1544, 1548,218 USPQ 385, 388 (Fed. Cir. 1983), none of the references of record alone or in combination disclose or suggest the combination of limitations specified in independent claim 1, including "receiving, wirelessly by at least one of an infrared and radio frequency module of a television and from a remote control, a request to change a programming channel; displaying, by a microprocessor executable application framework and on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9; receiving, by the application framework and from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and changing, by the application framework, to the selected channel, wherein the remote control comprises: a media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, and internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media; an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software

applications comprise one or more of a web browser, settings control, and content search algorithms; an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon; and a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser system settings, and information associated therewith".

The examiner has found that the prior art(s) does not appear to teach or suggest or render obvious the claimed limitation(s) in combination with the specific added limitations as recited in independent claim(s). The prior art of record fail(s) to teach or suggest individually or in combination the independent claims.

The closest art cited in the case includes Carolynn Rae Johnson (Pat. No. US 7,506,350 B2) which discloses an IR receiver receiving wirelessly from a remote control a request to change channels using channel up and down button. Johnson discloses an on screen channel changer comprising EPG information and a number input bar with digits. Johnson also discloses a CPU that executes control programs contained within memory in response to commands provided by a user. Reference James W. Wiede (Pat. No. US 8,089,455 B1) teaches a channel selection mode where an active-display shows a virtual-keyboard (number input bar) with the numbers 0 thru 9. Reference Heo et al. (US 20110055873 A1) teaches a user interface manager that controls a virtual keyboard to be displayed on the screen where the user can select number 0-9 contained in the virtual keyboard.

Johnson, Wiede, and Heo separate or in combination fail to teach a remote control comprising a media center button, an application center button, an application panel button, and a global panel button. Where the media center button that, when selected, provides, by the television screen, displayed information regarding one or more of groupings of music, groupings of videos, groupings of photographs, and internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media. The application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded

software applications comprise one or more of a web browser, settings control, and content search algorithms. The application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon. And the global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser system settings, and information associated therewith.

Therefore, it is the concept of a remote control comprising a media center button, an application center button, an application panel button, and a global panel button where each provides the functions as described above that Examiner finds to be novel.

Claims 7 and 12 are considered allowable for the same reasons stated above for claim 1. The dependent claims 2-6, 8-11, 13-17, and 20-21 are allowed because they further limit independent claims 1, 7 and 12.

Conclusion

5. Independent claims 1, 7, and 22 are allowed and the dependent claims 2-6, 8-11, 13-17, and 20-21 are allowed.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adil Ocak whose telephone number is (571) 272-2774. The examiner can normally be reached on 8am-5pm, M-F, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Goodarzi can be reached on (571) 272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ADIL OCAK/
Examiner, Art Unit 2426

/NASSER GOODARZI/
Supervisory Patent Examiner, Art Unit 2426

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	13/968,884	SELIM, MOHAMMED	
	Examiner	Art Unit	
	ADIL OCAK	2426	

All participants (applicant, applicant's representative, PTO personnel):

(1) *ADIL OCAK*. (3)_____.

(2) *DOUG SWARTZ*. (4)_____.

Date of Interview: *17 December 2014*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☒103 ☐Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *1, 7, and 12*.

Identification of prior art discussed: *Johnson (Pat No US 7,506,350), Wieder (Pat No US 8,089,455), Heo (US 20110055873)* .

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Discussed claims and Examiner proposed amendments to claims.

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/ADIL OCAK/ Examiner, Art Unit 2426	

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13968884	SELIM, MOHAMMED
	Examiner	**Art Unit**
	ADIL OCAK	2426

CPC						
Symbol					**Type**	**Version**
H04N		5	/	4401	F	2013-01-01
H04N		17	/	04	I	2013-01-01
H04N		5	/	4403	I	2013-01-01
H04N		21	/	4823	I	2013-01-01
H04N		5	/	50	I	2013-01-01
H04N		21	/	4307	I	2013-01-01
H04N		21	/	26291	I	2013-01-01
H04N		21	/	437	I	2013-01-01
H04N		21	/	4622	I	2013-01-01
H04N		21	/	482	I	2013-01-01
H04N		21	/	8166	I	2013-01-01
H04N		21	/	44213	I	2013-01-01
H04N		21	/	44222	I	2013-01-01
H04N		21	/	44204	I	2013-01-01
H04N		21	/	485	I	2013-01-01
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H04N		21	/	4828	I	2013-01-01
H04N		21	/	4821	I	2013-01-01
H04N		21	/	4755	I	2013-01-01
H04N		21	/	8173	I	2013-01-01
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H04N		21	/	478	I	2013-01-01
H04N		21	/	8358	I	2013-01-01
H04N		5	/	445	I	2013-01-01
G06F		3	/	0481	I	2013-01-01
H04N		21	/	442	I	2013-01-01
H04N		21	/	4882	I	2013-01-01
H04N		21	/	6175	I	2013-01-01
H04N		21	/	8126	I	2013-01-01
H04N		21	/	4858	I	2013-01-01

/ADIL OCAK/ Examiner.Art Unit 2426	12/24/2014	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	19	
/NASSER GOODARZI/ Supervisory Patent Examiner.Art Unit 2426	12/24/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13968884	SELIM, MOHAMMED
	Examiner	**Art Unit**
	ADIL OCAK	2426

H04N	21	/	488	I	2013-01-01
H04N	21	/	8133	I	2013-01-01
H04N	21	/	42204	I	2013-01-01
H04N	21	/	4396	I	2013-01-01
H04N	21	/	6125	I	2013-01-01
H04N	21	/	4316	I	2013-01-01
H04N	21	/	433	I	2013-01-01
H04N	21	/	47202	I	2013-01-01
H04N	21	/	435	I	2013-01-01
H04N	21	/	432	I	2013-01-01
H04N	21	/	47	I	2013-01-01
H04L	51	/	32	I	2013-01-01
H04N	21	/	25808	I	2013-01-01
H04N	21	/	4532	I	2013-01-01
G06F	3	/	017	I	2013-01-01
G06F	2203	/	04804	A	2013-01-01
G06F	3	/	04883	I	2013-01-01
H04N	5	/	44	A	2013-01-01
H04N	5	/	45	A	2013-01-01

CPC Combination Sets					
Symbol			**Type**	**Set**	**Ranking**	**Version**
	/					
	/					

/ADIL OCAK/ Examiner.Art Unit 2426	12/24/2014	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	19	
/NASSER GOODARZI/ Supervisory Patent Examiner.Art Unit 2426	12/24/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13968884	SELIM, MOHAMMED
	Examiner	**Art Unit**
	ADIL OCAK	2426

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
725	56	H	0	4	N	5 / 445 (2011.01.01)						
CROSS REFERENCE(S)		G	0	6	F	3 / 00 (2006.01.01)						
		G	0	6	F	13 / 00 (2006.01.01)						

CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
725	41	43	45		

/ADIL OCAK/ Examiner.Art Unit 2426	12/24/2014	**Total Claims Allowed:**
(Assistant Examiner)	(Date)	19
/NASSER GOODARZI/ Supervisory Patent Examiner.Art Unit 2426	12/24/2014	O.G. Print Claim(s) / O.G. Print Figure
(Primary Examiner)	(Date)	1 / 1A

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13968884	SELIM, MOHAMMED
	Examiner	**Art Unit**
	ADIL OCAK	2426

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	19	17												
2	2		18												
3	3		19												
4	4	13	20												
5	5	7	21												
6	6														
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16	14														
17	15														
18	16														

/ADIL OCAK/ Examiner.Art Unit 2426	12/24/2014	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	19	
/NASSER GOODARZI/ Supervisory Patent Examiner.Art Unit 2426	12/24/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	111	remote with media with application with (panel$1 widow$1) with global	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2014/12/24 10:50
L2	73	remote with media with application with (panel$1 widow$1) with global with center	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2014/12/24 10:51
L3	73	H04N21/$.cpc. and remote with media with application with (panel$1 widow$1) with global with center	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2014/12/24 10:53

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	1	(receiv$3 with wirelessly with (infrared radio adj frequency) with (tv television) with remote with control with change with (program$4 channel)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2014/12/24 10:57
L6	3	(receiv$3 same wirelessly same (infrared radio adj frequency) same (tv television) same remote same control same change same (program$4 channel)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2014/12/24 10:57
L7	11	(displaying same microprocessor same application same framework asame television same screen same channel same changer same (program adj guide EPG) same information same number same input same bar same digit$1).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2014/12/24 11:02
L8	3	(chang$3 same application same framework same selected same channel).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2014/12/24 11:05

12/24/2014 11:05:44 AM

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13968884	SELIM, MOHAMMED
	Examiner	Art Unit
	ADIL OCAK	2426

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
Text EAST search - US-PGPUB, USPAT, USOCR, EPO, JPO, DERWENT	6/12/2014	AO
Inventor name search	6/12/2014	AO
IEEE search	6/12/2014	AO
Provisional and Double Patent	6/12/2014	AO
NPL search	6/12/2014	AO
See search history printout	6/12/2014	AO
See additional search history printout	12/24/2014	AO

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
USPGPub	Independent claim keywords.clm.	12/24/2014	AO

/ADIL OCAK/ Examiner.Art Unit 2426	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13968884	SELIM, MOHAMMED
	Examiner	**Art Unit**
	ADIL OCAK	2426

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	06/12/2014	06/12/2014	12/24/2014						
1	1	✓		=						
2	2	✓		=						
3	3	✓		=						
4	4	✓		=						
5	5	✓		=						
6	6	✓		=						
8	7	✓		=						
9	8	✓	O	=						
10	9	✓	O	=						
11	10	✓		=						
12	11	✓		=						
14	12	✓		=						
15	13	✓	O	=						
16	14	✓	O	=						
17	15	✓	O	=						
18	16	✓		=						
19	17	✓		=						
	18	✓		-						
	19	✓		-						
13	20			=						
7	21			=						

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
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Examiner Initials*	Cite No.[1]	Document Number Number-kind Code [2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	6008803	12/28/1999	Rowe et al.	
	2	6239794	05/29/2001	Yuen et al.	
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Examiner Signature	/Adil Ocak/	Date Considered	12/24/2014

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.O./

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	34	2009/0271823	10/29/2009	Jung et al.	
	35	2009/0293079	11/26/2009	McKee et al.	
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	69	2013/0238777	09/12/2013	Raleigh	
	70	2013/0238796	09/12/2013	Lentzitzky	
	71	2013/0282839	10/24/2013	Alcala	
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	76	WO 2012/103121	08/02/2012	CYANDIA, INC		

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	77	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US13/55494, mailed Apr. 16, 2014 (Attorney's Ref. No. 6583-426-PCT) 9 pages
	78	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US2013/055342, mailed Apr. 17, 2014 (Attorney's Ref. No. 6583-434-PCT) 12 pages
	79	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US13/55592, mailed Mar. 10, 2014 (Attorney's Ref. No. 6583-464-PCT) 11 pages
	80	Notice of Allowance for U.S. Patent Application No. 13/864,206, mailed Apr. 16, 2014 (Attorney's Ref. No. 6583-425) 7 pages
	81	Official Action for U.S. Patent Application No. 13/970,409, mailed Jul. 21, 2014 (Attorney's Ref. No. 6583-438) 21 pages
	82	Official Action for U.S. Patent Application No. 13/970,442, mailed Jun. 4, 2014 (Attorney's Ref. No. 6583-441) 10 pages
	83	Official Action for U.S. Patent Application No. 13/970,450 mailed Jul. 09, 2014 (Attorney's Ref. No. 6583-442) 17 pages
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	85	Official Action for U.S. Patent Application No. 13/968,858 mailed May 15, 2014 (Attorney's Ref. No. 6583-444) 6 pages

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	86	Official Action for U.S. Patent Application No. 13/968,876 mailed Jun. 16, 2014 (Attorney's Ref. No. 6583-446) 10 pages
	87	Official Action for U.S. Patent Application No. 13/968,983, mailed Ju. 07, 2014 (Attorney's Ref. No. 6584-449) 15 pages
	88	Official Action for U.S. Patent Application No. 13/968,948 mailed May 6, 2014 (Attorney's Ref. No. 6583-450) 11 pages
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	90	Official Action for U.S. Patent Application No. 13/969,505, mailed Jul. 15, 2014 (Attorney's Ref. No. 6583-454) 7 pages
	91	Official Action for U.S. Patent Application No. 13/969,490 mailed May 23, 2014 (Attorney's Ref. No. 6583-456) 18 pages
	92	Official Action for U.S. Patent Application No. 13/969,492 mailed May 23, 2014 (Attorney's Ref. No. 6583-458) 17 pages
	93	Official Action for U.S. Patent Application No. 13/970,000, mailed Jul. 15, 2014 (Attorney's Ref. No. 6583-463) 12 pages
	94	Official Action for U.S. Patent Application No. 13/970,355, mailed Jul. 07, 2014 (Attorney's Ref. No. 6583-464) 7 pages
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Examiner Signature	/Adil Ocak/	Date Considered	12/24/2014

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	1	5867227	02/02/1999	Yamaguchi	
	2	6047319	04/04/2000	Olson	
	3	6111614	08/29/2000	Mugura et al.	
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	54	Official Action for U.S. Patent Application No. 13/969,869, mailed Sep. 16, 2014 (Attorney's Ref. No. 6583-428) 20 pages

Examiner Signature	/Adil Ocak/	Date Considered	12/24/2014

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	3	of	4	Attorney Docket Number	6583-445

	55	Official Action for U.S. Patent Application No. 13/969,880, mailed Sep. 11, 2014 (Attorney's Ref. No. 6583-431) 10 pages
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				Art Unit	2426
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(Use as many sheets as necessary)				Art Unit	2426
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Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	53	Official Action for U.S. Patent Application No. 13/969,846, mailed Aug. 15, 2014 (Attorney's Ref. No. 6583-426) 19 pages
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Electronic Patent Application Fee Transmittal

Application Number:	13968884
Filing Date:	16-Aug-2013
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Filer:	Douglas W. Swartz/Robert Roe-Pachirat
Attorney Docket Number:	6583-445

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt	
EFS ID:	20702946
Application Number:	13968884
International Application Number:	
Confirmation Number:	1062
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Customer Number:	111285
Filer:	Douglas W. Swartz/Robert Roe-Pachirat
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-445
Receipt Date:	14-NOV-2014
Filing Date:	16-AUG-2013
Time Stamp:	15:42:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	2197
Deposit Account	191970
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		6583-445_IDS_03.pdf	308473 7c005f3b78cbf1ae2339888423c7ab0c5ae5a858	yes	7
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	Transmittal Letter		1	3	
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Information:					
24	Non Patent Literature	6583-504_OA_07-31-2014.pdf	289770 5672e9bb8025b88a012f27c27e54100eb8fd3f87	no	9
Warnings:					
Information:					
25	Non Patent Literature	6583-508_OA_08-29-2014.pdf	979764 dc22c5821c58624aba5bf90f6bcf36683e393b9	no	30
Warnings:					
Information:					

26	Non Patent Literature	6583-510_OA_11-07-2014.pdf	328862 565db7979793d5808ab65f19ad1ec7bb98fe1db2	no	10
Warnings:					
Information:					
27	Non Patent Literature	6583-511_OA_11-03-2014.pdf	465744 766bec5e288e793404dd54a48256e5335e0e84e2	no	16
Warnings:					
Information:					
28	Non Patent Literature	6583-519_OA_08-22-2014.pdf	668117 02faf93fe01ccc30e757f2a36b60d6de1e29823d	no	20
Warnings:					
Information:					
29	Fee Worksheet (SB06)	fee-info.pdf	30574 3b2942dae3a00e4f5856c69e9f5905162139c2f2	no	2
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		Total Files Size (in bytes):	14454059		

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2426
Mohammed Selim	)	Confirmation No.: 1062
Serial No.: 13/968,884	)	Examiner: Adil Ocak
Filed: August 16, 2013	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-445	)	
Entitled: "On Screen Method and System for Changing Television Channels"	)	*Electronically Submitted*

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☐ Examiner's attention is drawn to the following related applications:

Serial No. _____ filed _____ (Attorney Ref. No. _____)

Serial No. _____ filed _____ (Attorney Ref. No. _____)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence

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of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☐	**37 CFR 1.97(b)**: No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, or ☐ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☒	**37 CFR 1.97(c)**: The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of any one of the following conditions: (1) a final action under 37 C.F.R. 1.113, or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☒ Please charge Deposit Account 19-1970 in the amount of $180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☐	**37 CFR 1.97(d)**: This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☐ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☐ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of $180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

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Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in the Information Disclosure Statement submitted herewith was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37,739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: November 13, 2014

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.:	13/968,884	Confirmation No.:	**1062**
Applicant:	Selim	TC/A.U.	2426
Filed:	8/16/2013	Examiner:	Ocak
Docket No.:	6583-445		
For:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS		

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND RESPONSE

Sir:

Applicants submit this Amendment and Response to address the Office Action having a mailing date of June 25, 2014. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970.

Please amend the above-identified patent application as follows:

Amendments to the Claims are shown in the listing of claims which begins on page **2** of this paper.

Remarks begin on page **9** of this paper.

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method, comprising:

receiving, wirelessly by at least one of an infrared and radio frequency module of a television and from a remote control, a request to change a programming channel;

displaying, by a microprocessor executable application framework and on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9;

receiving, by the application framework and from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and

changing, by the application framework, to the selected channel.

2. (Currently Amended) The method of claim 1, ~~wherein the digits range from 0 to 9, wherein the remote control selects the digits using non-numeric keys, and~~ wherein the EPG information corresponds to multiple programs and/or channels, ~~and~~ wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description, wherein the remote control comprises a media center button that, when selected, provides, by the television screen, displayed information regarding groupings of music, videos, and/or photographs, and/or internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media.

3. (Currently Amended) The method of claim [[2]]1, wherein each of the digits are selected using one or more arrow keys and a select button, wherein the remote control further comprises an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms, wherein the remote control further comprises an application panel

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button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon, and wherein the information panel comprises one or more of identify the selected application, provide a description of the functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to favorites the selected application, and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application.

4. (Currently Amended) The method of claim [[3]]1, wherein the remote control does not have a key corresponding to each of the digits, wherein the remote control further comprises a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and/or information associated therewith.

5. (Currently Amended) The method of claim 1, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, ~~and~~ wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, wherein the EPG information and graphical image are provided by an electronic program guide service, and wherein the remote control further comprises plural hotkeys, the functions of each of the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen.

6. (Currently Amended) The method of claim 1, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits and wherein the remote control further comprises a moveable joystick that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount.

7. (Currently Amended) A television, comprising:

a television screen;

at least one of an infrared and radio frequency module configured to receive wirelessly requests from a remote control of a user, the requests comprising a selected channel or program from a displayed listing; and

a microprocessor executable application framework configured to:

_____receive a request to change a programming channel, display, on the television screen, an on screen channel changer, the on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9,

receive, from the remote control and using the on screen channel changer, a channel selection of a user based on digits in the number input bar~~using the on screen channel changer~~, wherein the user selects the digits from the number input using non-numeric keys on the remote control, and

change to the selected channel. ~~The television of claim 7, wherein the digits range from 0 to 9, wherein the remote control selects the digits using non-numeric keys, and wherein the EPG information corresponds to multiple programs and/or channels, and wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description.~~

8. (Currently Amended) The television of claim [[8]]7, wherein each of the digits are selected using one or more arrow keys and a select button, wherein the remote control further comprises an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms, wherein the remote control further comprises an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon, and wherein the information panel comprises one or more of identify the selected application, provide a description of the functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to favorites the selected application,

and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application.

9. (Currently Amended) The television of claim [[9]]7, wherein the remote control does not have a key corresponding to each of the digits, wherein the remote control further comprises a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and/or information associated therewith.

10. (Currently Amended) The television of claim 7, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, wherein the EPG information and graphical image are provided by an electronic program guide service, and wherein the remote control further comprises plural hotkeys, the functions of each of the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen~~wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, and wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program~~.

11. (Currently Amended) The television of claim 7, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits and wherein the remote control further comprises a moveable joystick that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount.

12. (Currently Amended) A tangible and non-transient computer readable medium, comprising microprocessor executable instructions that, when executed, are configured to perform operations comprising:

instructions to receive, from a remote control of a user, a request to change a programming channel;

instructions to display, on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9;

instructions to receive, from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and

instructions to change to the selected channel.

13. (Currently Amended) The computer readable medium of claim [[13]]12, wherein the EPG information corresponds to multiple programs and/or channels, wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description, wherein the remote control comprises a media center button that, when selected, provides, by the television screen, displayed information regarding groupings of music, videos, and/or photographs, and/or internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media~~wherein the digits range from 0 to 9, wherein the remote control selects the digits using non-numeric keys, and wherein the EPG information corresponds to multiple programs and/or channels, and wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description~~.

14. (Currently Amended) The computer readable medium of claim [[14]]12, wherein the remote control further comprises an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms, wherein the remote control further comprises an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon, and wherein the information

panel comprises one or more of identify the selected application, provide a description of the functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to favorites the selected application, and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application~~wherein each of the digits are selected using one or more arrow keys and a select button~~.

15. (Currently Amended) The computer readable medium of claim [[15]]12, wherein the remote control does not have a key corresponding to each of the digits, wherein the remote control further comprises a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and/or information associated therewith.

16. (Currently Amended) The computer readable medium of claim [[13]]12, wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image are provided by an electronic program guide service, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, and wherein the remote control further comprises plural hotkeys, the functions of each of the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen~~wherein the on screen channel changer comprises a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, and wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program~~.

17. (Currently Amended) The computer readable medium of claim [[13]]12, wherein, as the user selects each digit, the application framework updates the EPG information to include only those programs and/or channels selectable from the selected digits and wherein the remote control further comprises a moveable joystick that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount.

18. (Canceled)

19. (Canceled)

20. (New) The television of claim 7, wherein the EPG information corresponds to multiple programs and/or channels, wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description, wherein the remote control comprises a media center button that, when selected, provides, by the television screen, displayed information regarding groupings of music, videos, and/or photographs, and/or internal and external computational devices, the computational devices comprising one or more of personal computers, laptops, tablet computers, wireless phones, and removable computer readable media.

21. (New) The method of claim 1, wherein the remote control further comprises a social network button that, when selected, automatically selects content and publishes, via a social network service or other social media, the content to a social network or online community wherein, by the remote control, a social volume visualization can be adjusted whereby the screen displayes a dynamic visualization of aggregated connections and/or inbound and/or outbound messages from a variety of social networks, the aggregation and/or inbound and/or outbound messages being depicted graphically on the screen as a volume of connections to influence the user, wherein, by the social volume visualization, selected contents of each linked social network profile of a social contact and/or inbound and/or outbound messages from or to the linked social network contact and/or current activity of the social contact is presented in a separate tile and/or visually displayed object, and wherein, by turning the social volume up or down, the user increases or decreases a size and/or numbers of linked contact tiles displayed by the screen to the viewer, whereby increasing the social volume enables the user to view, access, and/or push more social content from selected social networks associated with the user and decreasing the social volume enables the user to view, access, and/or push less social content from selected social networks associated with the user.

REMARKS

The Examiner rejects claims 8-9 and 13-15 due to various informalities. These informalities have been addressed in the amended claims 8-9 and 13-15.

The Examiner rejects claims 1, 2, 7, and 12-13 under 35 U.S.C.§103 as being unpatentable over Johnson (US 7,506,350) in view of Wieder (US 8,089,455); claims 3-4, 6, 8-9, 11, 14-15, 17 and 19 under 35 U.S.C.§103 as being unpatentable over Johnson in view of Wieder and further in view of Heo et al. (US 2011/0055873); and claims 5, 10, 16, and 18 under 35 U.S.C.§103 as being unpatentable over Johnson in view of Wieder and further in view of Vaysman (US 2007/0011702).

Applicant respectfully traverses the Examiner's rejections.

The rejected claims do not teach or suggest at least the following italicized features of independent claims 1, 7, and 12:

> 1. A method, comprising:
> receiving, wirelessly by at least one of an infrared and radio frequency module of a television and from a remote control, a request to change a programming channel;
> displaying, by a microprocessor executable application framework and on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9;
> *receiving, by the application framework and from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control*; and
> changing, by the application framework, to the selected channel.
>
> 7. A television, comprising:
> a television screen;
> at least one of an infrared and radio frequency module configured to receive wirelessly requests from a remote control of a user, the requests comprising a selected channel or program from a displayed listing; and
> a microprocessor executable application framework configured to:
> receive a request to change a programming channel, display, on the television screen, an on screen channel changer, the on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9,
> *receive, from the remote control and using the on screen channel changer, a channel selection of a user based on digits in the number input bar, wherein the user selects the digits from the number input using non-numeric keys on the remote control*, and

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change to the selected channel.

12. A tangible and non-transient computer readable medium, comprising microprocessor executable instructions that, when executed, are configured to perform operations comprising:

instructions to receive, from a remote control of a user, a request to change a programming channel;

instructions to display, on a television screen, an on screen channel changer, the displayed on screen channel changer comprising electronic program guide ("EPG") information and a number input bar comprising digits, wherein the digits range from 0 to 9;

instructions to receive, from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control; and

instructions to change to the selected channel.

Johnson is directed to a system and a method for processing program guide information. Electronic program guide information is received and stored. A first search criterion from a user for a first type of search is received. The program guide information is searched to find one or more records matching the first type of search. A user instruction is received to convert the first search criterion to a second search criterion for use with a second type of search. The first search criterion is converted for use with the second type of search.

Wieder discloses an apparatus and method for the remote control and/or interaction-with electronic-devices such as televisions. A user may orient a pointer (e.g., laser pointer) to place a visible pointer-spot on/near object(s) on an active-display(s); and/or a fixed-display(s); and/or on real-world object(s) within a display region or pointer-spot detection-region. Detectors and/or camera(s) may be connected/attached to the display region and/or a structure that is connected/attached to display region. When the user initiates a "select", the detectors/cameras may detect the location of the pointer-spot within the display region. Corresponding to the user's selection(s); control action(s) may be performed on the device(s) being controlled/interacted-with and additional selection-menus may be optionally presented on an active-display.

At page 12 of the Office Action, the Examiner acknowledges that "Johnson and Wieder . . . do not explicitly disclose wherein each of the digits are selected using one or more arrow keys and a select button." For this teaching, the Examiner mistakenly relies on Fig. 11 and the accompanying discussion of Heo.

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Heo is directed to a digital broadcast receiver that displays virtual keys on a screen. The virtual keys may be provided in a plurality of regions, each region having an identifier and characters that are unique from other regions. The digital broadcasting receiver may receive at least one input corresponding to selection of the identifier for selection of a desired character, wherein the desired character and at least one other character in a different region are displayed differently on the screen.

The Examiner mischaracterizes the teachings of Heo. Fig. 10 depicts a remote controller 780 having jointly labeled number and letter keys. Fig. 11 does not disclose "a remote control with directional arrow keys with an OK select button" as indicated by the Examiner. (*Id.* at page 12.) Fig. 11 rather is a diagram illustrating a method for entering information of virtual keys through the display image using the remote controller 780 of Fig. 10. Heo states:

> [0143] Referring to FIG. 11, the controller 780 may provide (or locate) the indicator at the selected input region so that the selected input region including the indicator may be displayed separately from other input regions. For example, if the user desires to enter a user ID `happy`, the user may firstly press the *number* key `4` and *then* press the arrow key `Right`, and the indicator may be located at the input region `h`. In this example, if the user presses the selection key `OK`, the controller 780 may receive virtual key information `h` assigned to the input region `h`.

(Emphasis supplied.)

As can be seen from this description, Heo teaches using a numeric keypad to enter the channel and does not teach "*receiving, by the application framework and from the remote control, a channel selection based on digits selected by a user using the remote control and the number input bar on screen channel changer, wherein the user selects the digits using non-numeric keys of the remote control*".

Vaysman does not overcome this deficiency.

The dependent claims provide further reasons for allowance.

By way of example, dependent claim 2 requires the EPG information to correspond to multiple programs and/or channels, wherein the EPG information comprises, for each program, airtime, program name, program channel, and program description, wherein the remote control comprises a media center button that, when selected, provides, by the television screen, displayed information regarding groupings of music, videos, and/or photographs, and/or internal and external computational devices, the computational devices comprising one or more of

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personal computers, laptops, tablet computers, wireless phones, and removable computer readable media. (*See* dependent claims 8 and 13.)

Dependent claim 3 requires wherein each of the digits to be selected using one or more arrow keys and a select button, wherein the remote control further comprises an application center button that, when selected, provides, by the television screen, displayed information regarding pre-installed and downloaded software applications, wherein the downloaded software applications comprise one or more of a web browser, settings control, and content search algorithms, wherein the remote control further comprises an application panel button that, when selected, displays, by the television screen, an application panel, wherein the application panel comprises an information panel regarding a selected (pre-installed or previously downloaded) application icon, and wherein the information panel comprises one or more of identify the selected application, provide a description of the functionality of the selected application, user ratings and/or degree of other user downloading of the selected application, an option to launch, remove, update, and add to favorites the selected application, and provide a listing of selectable links of other (not yet downloaded) recommended applications that provide similar functionality to the selected application. (*See* dependent claims 9 and 14.)

Dependent claim 4 requires the remote control not to have a key corresponding to each of the digits, wherein the remote control further comprises a global panel button that, when selected, provides the user, via one or more panels or windows displayed by the television screen, with access to one or more of silos, notifications, a web browser, system settings, and/or information associated therewith. (*See* dependent claims 10 and 15.)

Dependent claim 5 requires the on screen channel changer to comprise a thumbnail preview containing EPG information corresponding to an in focus channel and/or program and a graphical image, wherein the EPG information in the thumbnail preview comprises, for the in focus channel and/or program, airtime, program name, program channel, and program description, wherein the graphical image in the thumbnail preview is one of a captured frame of a program associated with the in focus program, a picture associated with the in focus program, and a photograph associated with the in focus program, wherein the EPG information and graphical image in the thumbnail preview changes as the in focus EPG information changes, wherein the EPG information and graphical image are provided by an electronic program guide service, and wherein the remote control further comprises plural hotkeys, the functions of each of

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the plural hotkeys depending on system state, context, and/or, within a selected screen and/or panel, based on a content or currently selected portion of or relative cursor position on the screen. (*See* dependent claims 11 and 16.)

Dependent claim 6 requires, as the user selects each digit, the application framework to update the EPG information to include only those programs and/or channels selectable from the selected digits, wherein the remote control further comprises a moveable joystick that, when manipulated by the user, causes a displayed image on the screen to be displaced a proportional amount. (*See* dependent claims 12 and 17.)

Applicant has added new claims 20-21, which provide further reasons for allowance.

Based on the foregoing, Applicants believe that all pending claims are in condition for allowance and such disposition is respectfully requested. In the event that a telephone conversation would further prosecution and/or expedite allowance, the Examiner is invited to contact the undersigned.

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: September 24, 2014

By: /Douglas W. Swartz/
Douglas W. Swartz
Reg. No. 37,739
1560 Broadway, Suite 1200
Denver, Colorado 80202
Telephone: 303-863-9700

EX. 1002
LG Electronics, Inc. / Page 376 of 3523

Electronic Patent Application Fee Transmittal

Application Number:	13968884
Filing Date:	16-Aug-2013
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Filer:	Douglas W. Swartz/Christine Jacquet
Attorney Docket Number:	6583-445

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Claims in Excess of 20	1202	1	80	80
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
		Total in USD ($)		**80**

Electronic Acknowledgement Receipt

EFS ID:	20234604
Application Number:	13968884
International Application Number:	
Confirmation Number:	1062
Title of Invention:	ON SCREEN METHOD AND SYSTEM FOR CHANGING TELEVISION CHANNELS
First Named Inventor/Applicant Name:	Mohammed Selim
Customer Number:	111285
Filer:	Douglas W. Swartz/Christine Jacquet
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-445
Receipt Date:	24-SEP-2014
Filing Date:	16-AUG-2013
Time Stamp:	16:39:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$80
RAM confirmation Number	3407
Deposit Account	191970
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		AmendDue_9-25-14.pdf	128282 b6091f86b94a500bab4a330241fd0b781d86c24c	yes	13

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Amendment/Req. Reconsideration-After Non-Final Reject	1	1
Claims	2	8
Applicant Arguments/Remarks Made in an Amendment	9	13

Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30609 9555c5275b7b9b611fba1a2089c46367691bc637	no	2
Warnings:					
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/968,884	Filing Date 08/16/2013	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)		
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	09/24/2014	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 19	Minus	** 20	= 0	X $0 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $0 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

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/STANLEY JORDAN/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/968,884
				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	1	of	4	Attorney Docket Number	6583-445

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code [2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	6008803	12/28/1999	Rowe et al.	
	2	6239794	05/29/2001	Yuen et al.	
	3	6563515	05/13/2003	Reynolds et al.	
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				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	2	of	4	Attorney Docket Number	6583-445

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(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	3	of	4	Attorney Docket Number	6583-445

	69	2013/0238777	09/12/2013	Raleigh		
	70	2013/0238796	09/12/2013	Lentzitzky		
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	76	WO 2012/103121	08/02/2012	CYANDIA, INC		

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	77	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US13/55494, mailed Apr. 16, 2014 (Attorney's Ref. No. 6583-426-PCT) 9 pages
	78	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US2013/055342, mailed Apr. 17, 2014 (Attorney's Ref. No. 6583-434-PCT) 12 pages
	79	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US13/55592, mailed Mar. 10, 2014 (Attorney's Ref. No. 6583-464-PCT) 11 pages
	80	Notice of Allowance for U.S. Patent Application No. 13/864,206, mailed Apr. 16, 2014 (Attorney's Ref. No. 6583-425) 7 pages
	81	Official Action for U.S. Patent Application No. 13/970,409, mailed Jul. 21, 2014 (Attorney's Ref. No. 6583-438) 21 pages
	82	Official Action for U.S. Patent Application No. 13/970,442, mailed Jun. 4, 2014 (Attorney's Ref. No. 6583-441) 10 pages
	83	Official Action for U.S. Patent Application No. 13/970,450 mailed Jul. 09, 2014 (Attorney's Ref. No. 6583-442) 17 pages
	84	Official Action for U.S. Patent Application No. 13/970,453, mailed Jul. 21, 2014 (Attorney's Ref. No. 6583-443) 12 pages
	85	Official Action for U.S. Patent Application No. 13/968,858 mailed May 15, 2014 (Attorney's Ref. No. 6583-444) 6 pages

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				Filing Date	August 16, 2013
				First Named Inventor	Mohammed Selim
(Use as many sheets as necessary)				Art Unit	2426
				Examiner Name	Adil Ocak
Sheet	4	of	4	Attorney Docket Number	6583-445

	86	Official Action for U.S. Patent Application No. 13/968,876 mailed Jun. 16, 2014 (Attorney's Ref. No. 6583-446) 10 pages
	87	Official Action for U.S. Patent Application No. 13/968,983, mailed Ju. 07, 2014 (Attorney's Ref. No. 6584-449) 15 pages
	88	Official Action for U.S. Patent Application No. 13/968,948 mailed May 6, 2014 (Attorney's Ref. No. 6583-450) 11 pages
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	91	Official Action for U.S. Patent Application No. 13/969,490 mailed May 23, 2014 (Attorney's Ref. No. 6583-456) 18 pages
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	99	Official Action for U.S. Patent Application No. 13/968,732, mailed May 27, 2014 (Attorney's Ref. No. 6583-500) 12 pages
	100	Official Action for U.S. Patent Application No. 13/969,777, mailed Jun. 25, 2014 (Attorney's Ref. No. 6583-501) 9 pages
	101	Official Action for U.S. Patent Application No. 13/969,510, mailed Jun. 25, 2014 (Attorney's Ref. No. 6583-511) 13 pages
	102	Official Action for U.S. Patent Application No. 13/970,247, mailed Jul. 09, 2014 (Attorney's Ref. No. 6583-520) 19 pages
	103	Official Action for U.S. Patent Application No. 13/969,504, mailed Jul. 15, 2014 (Attorney's Ref. No. 6583-526) 9 pages

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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
2 August 2012 (02.08.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/103121 A1

(51) International Patent Classification:
H04H 6/32 (2006.01)

(21) International Application Number:
PCT/US2012/022406

(22) International Filing Date:
24 January 2012 (24.01.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/435,976	25 January 2011 (25.01.2011)	US
61/474,942	13 April 2011 (13.04.2011)	US
61/476,961	19 April 2011 (19.04.2011)	US
13/273,894	14 October 2011 (14.10.2011)	US

(71) Applicant *(for all designated States except US)*: **CYANDIA, INC.** [US/US]; 843 Malden Road, Syracuse, New York 13211 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **WETZER, Michael** [US/US]; 101 Marvelle Road, Fayetteville, New York 13066 (US). **THERIAULT, Thomas** [US/US]; 5 Commodore Circle, Baldwinsville, New York 13027 (US). **DINGMAN, Mark** [US/US]; 1378 State Route 80, Tully, New York 13159 (US).

(74) Agents: **TEJA, Joseph, Jr.** et al.; Foley & Lardner LLP, 111 Huntington Avenue, Boston, Massachusetts 02199 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

[Continued on next page]

(54) **Title**: INFORMATION DELIVERY SYSTEM FOR, AND METHODS OF, INTERACTION WITH MULTIPLE INFORMATION FORMS ACROSS MULTIPLE TYPES AND/OR BRANDS OF ELECTRONIC DEVICES, SUCH AS TELEVISIONS, MOBILE PHONES, AND COMPUTING DEVICES

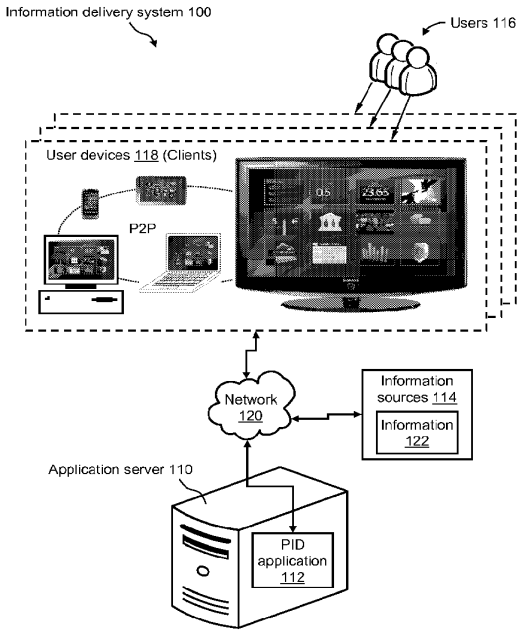


FIG. 1

(57) **Abstract**: An information delivery system for and methods of interaction with multiple information forms across multiple types, brands, and/or models of electronic devices, such as mobile devices, portable devices, desktop computers, and televisions is disclosed. The information delivery system for and methods of the invention provide the display of and access to secure user-centric information via the construct of a channel grid framework serving as a desktop on a user device. The channel grid framework includes multiple user-selectable items that provide access to corresponding "channels" by which respective portions of user-centric information are delivered to a user. The information delivery system of the invention may be suitable for consumer applications and/or enterprise applications. In one embodiment, the information delivery system of the invention supports a "Flex" presentation framework. In another embodiment, the information delivery system supports a "Web" presentation framework

WO 2012/103121 A1

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*

INFORMATION DELIVERY SYSTEM FOR, AND METHODS OF, INTERACTION WITH MULTIPLE INFORMATION FORMS ACROSS MULTIPLE TYPES AND/OR BRANDS OF ELECTRONIC DEVICES, SUCH AS TELEVISIONS, MOBILE PHONES, AND COMPUTING DEVICES

CROSS-REFERENCES TO RELATED APPLICATIONS

[0001] This application claims priority to the following U.S. applications:

[0002] U.S. provisional application serial no. 61/435,976, filed January 25, 2011, entitled "Information Delivery System for, and Methods of, Interaction with Multiple Information Forms Across Multiple Types and/or Brands of Electronic Devices, such as Televisions, Mobile Phones, and Computing Devices;"

[0003] U.S. provisional application serial no. 61/474,942, filed April 13, 2011, entitled "Information Delivery System for, and Methods of, Eventing and Alerting Using Multiple Information Forms and Sources Across Multiple Types and/or Brands of Electronic Devices;"

[0004] U.S. provisional application serial number 61/476,961, filed April 19, 2011, entitled "Information Delivery System for, and Methods of, Interaction with Multiple Information Forms Across Multiple Types and/or Brands of Electronic Devices, such as Televisions, Mobile Phones, and Computing Devices;" and

[0005] U.S. non-provisional application serial no. 13/273,894, filed October 14, 2011, entitled "Methods, Apparatus and Systems for Presenting Television Programming and Related Information."

[0006] Each of the foregoing applications is incorporated herein by reference in its entirety.

BACKGROUND

[0007] Consumer and business users want to access digital information such as broadcast TV; internet text, graphics, and video; and social networking media across different devices. These devices include laptop computers, smart phones, TVs, and tablets and each device has its own interface, content metaphor, format, and access method. Users' experience with digital content over different devices is poor for two reasons: 1) the quality of the information delivery is varied and, 2) users are required

to learn how to use each device in order to receive their desired information. This learning process is time consuming and does not guarantee the users' success.

[0008] In addition, although certain technologies, such as Internet browsers and multimedia players, provide some centralized manner of accessing digital information, such technologies are largely static. As a result, these technologies cannot be customized for individual user preferences.

[0009] For example, in the broadcast TV environment, users select and receive information using traditional channel guides. With this technology, user interaction and information customization is extremely limited. The ability to combine broadcast TV content with other forms of information, such as social media, is restricted.

[0010] In other information areas such as healthcare, finance, and home security, users want to do more than just access information: users want to combine and interrogate information to produce more meaningful interactions with information and other users.

SUMMARY

[0011] Once embodiment of the disclosure relates to an apparatus to provide secure user-centric information via at least one user platform operated by a user. The apparatus includes at least one communication interface to facilitate wired and/or wireless communications with the at least one user platform via one or more transmission media and at least one memory to store processor-executable instructions. The apparatus further includes at least one processor communicatively coupled to the at least one communication interface and the at least one memory. Upon execution of the processor-executable instructions by the at least one processor, the at least one processor establishes a bidirectional, asynchronous user session to manage provision of and interaction with the secure user-centric information. The session is established by implementing a plurality of channels through which the user receives and/or interacts with, via the at least one user platform, respective portions of the secure user-centric information, controlling the at least one communication interface to receive, from the at least one user platform, a user identity for the user and a platform identity for the at least one user platform, and authenticating the user and the user platform to receive the secure user-centric information based at least in part

on the user identity and the platform identity. The session is further established by, if the user and the user platform are authenticated, controlling the at least one communication interface so as to cause the bidirectional, asynchronous user session to be established between the apparatus and a web browser of the at least one user platform and to transmit to the at least one user platform during the user session first authenticated channel information relating to at least one authorized channel of the plurality of channels, based at least in part on information access rights and/or security protocols respectively associated with the corresponding plurality of channels, the user, and the user platform. The processor is configured to control the at least one communication interface to cause the bidirectional, asynchronous user session to be established without requiring a separate application other than the web browser to be installed on the user platform to establish the user session.

[0012] Another embodiment relates to a method for providing secure user-centric information via at least one user platform operated by a user. The method includes implementing a plurality of channels through which the user receives and/or interacts with, via the at least one user platform, respective portions of the secure user-centric information, receiving, from the at least one user platform, a user identity for the user and a platform identity for the at least one user platform, and authenticating the user and the user platform to receive the secure user-centric information based at least in part on the user identity and the platform identity. The method further includes, if the user and the user platform are authenticated, causing a bidirectional, asynchronous user session to be established with a web browser of the at least one user platform and transmitting to the at least one user platform during the user session first authenticated channel information relating to at least one authorized channel of the plurality of channels, based at least in part on information access rights and/or security protocols respectively associated with the corresponding plurality of channels, the user, and the user platform. The bidirectional, asynchronous user session is established without requiring a separate application other than the web browser to be installed on the user platform to establish the user session.

[0013] Another embodiment relates to at least one computer readable storage medium storing processor-executable instructions that, when executed by at least one processor, perform a method for providing secure user-centric information via at least

one user platform operated by a user. The method includes implementing a plurality of channels through which the user receives and/or interacts with, via the at least one user platform, respective portions of the secure user-centric information, receiving, from the at least one user platform, a user identity for the user and a platform identity for the at least one user platform, and authenticating the user and the user platform to receive the secure user-centric information based at least in part on the user identity and the platform identity. The method further includes, if the user and the user platform are authenticated, causing a bidirectional, asynchronous user session to be established with a web browser of the at least one user platform and transmitting to the at least one user platform during the user session first authenticated channel information relating to at least one authorized channel of the plurality of channels, based at least in part on information access rights and/or security protocols respectively associated with the corresponding plurality of channels, the user, and the user platform. The bidirectional, asynchronous user session is established without requiring a separate application other than the web browser to be installed on the user platform to establish the user session.

BRIEF DESCRIPTION OF THE DRAWINGS

[0014] The skilled artisan will understand that the figures, described herein, are for illustration purposes only, and that the drawings are not intended to limit the scope of the disclosed teachings in any way. In some instances, various aspects or features may be shown exaggerated or enlarged to facilitate an understanding of the inventive concepts disclosed herein (the drawings are not necessarily to scale, emphasis instead being placed upon illustrating the principles of the teachings). In the drawings, like reference characters generally refer to like features, functionally similar and/or structurally similar elements throughout the various figures.

[0015] Figure 1 illustrates a high level block diagram of an example of an information delivery system that includes a personal information delivery application for interaction with multiple information forms across multiple types, brands, and/or models of electronic devices, according to the present invention;

[0016] Figure 2 illustrates a functional block diagram of an example of a channel of a personal information delivery application for providing users access to and interaction with information, according to the present invention;

[0017] Figure 3 illustrates a screenshot of an example of a client GUI of the personal information delivery application and shows an example of a channel grid, according to the present invention;

[0018] Figure 4 illustrates various screenshots of certain components of an example of an "Around Me" channel of the personal information delivery application, according to the present invention;

[0019] Figure 5 illustrates a functional block diagram of an example of a client runtime environment, which is the runtime environment of the user devices of the information delivery system, according to the present invention;

[0020] Figure 6 illustrates a functional block diagram of an example of a personal information delivery application architecture for supporting the Flex presentation framework, according to the present invention;

[0021] Figure 7 illustrates a functional block diagram of an example of a client architecture of the personal information delivery application, according to the present invention;

[0022] Figure 8 illustrates a functional block diagram of an example of a communication flow between the client side and the server side of the personal information delivery application, according to the present invention;

[0023] Figure 9 illustrates a functional block diagram of an example of a communication flow between components at the server side of the personal information delivery application, according to the present invention;

[0024] Figure 10 illustrates a functional block diagram of a portion of the personal information delivery application architecture and a process of performing a user login operation, according to the present invention;

[0025] Figure 11 illustrates a functional block diagram of a portion of the personal information delivery application architecture and a process of performing data management and eventing and alerting, according to the present invention;

[0026] Figure 12 illustrates a screenshot of an example of the GUI of channel application catalog of the personal information delivery application by which users may acquire channels for use with their devices, according to the present invention;

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[0027] Figure 13 illustrates a screenshot of an example of the client GUI that includes another example of a channel grid, according to the present invention;

[0028] Figure 14 illustrates screenshots of certain components of an example of a "Stock Watch" channel of the personal information delivery application, according to the present invention;

[0029] Figures 15 through 18 illustrate screenshots of a client GUI of the personal information delivery application and an example of a process of eventing and alerting using the personal information delivery application, according to the present invention;

[0030] Figures 19 through 26 illustrate screenshots of certain channels of the personal information delivery application and an example of a process of combining two or more independent channels to create a new channel (and touchlet) and a process of eventing off of the combined data, according to the present invention;

[0031] Figures 27 through 40 illustrate screenshots of an example of a "Television" channel of the personal information delivery application, according to the present invention;

[0032] Figures 41 through 44 illustrate screenshots of certain components and operations of an example of a "Home Security" channel of the personal information delivery application and a process of alerting a user, according to the present invention;

[0033] Figure 45 illustrates screenshots of certain components of an example of a "NetFlix" channel of the personal information delivery application, according to the present invention;

[0034] Figures 46 and 47 illustrate screenshots of certain components of an example of a "Remote Healthcare" channel of the personal information delivery application, according to the present invention;

[0035] Figure 48 illustrates screenshots of certain components of an example of a "My Medicine Cabinet" channel of the personal information delivery application, according to the present invention;

[0036] Figure 49 illustrates screenshots of certain components of an example of an "MS Word" channel of the personal information delivery application, according to the present invention;

[0037] Figure 50 illustrates screenshots of certain components of an example of an "Email" channel of the personal information delivery application, according to the present invention;

[0038] Figure 51 illustrates screenshots of certain components of an example of a "News Reader" channel of the personal information delivery application, according to the present invention;

[0039] Figure 52 illustrates a screenshot of an example of an enterprise client GUI that includes an example of a login window, according to the present invention;

[0040] Figures 53 and 54 illustrate screenshots of the enterprise client GUI showing two example channel grids that may be related to the enterprise, according to the present invention;

[0041] Figure 55 illustrates screenshots of certain components of an example of a "Personal Calendar" channel that is suitable for use in enterprise applications, according to the present invention;

[0042] Figure 56 illustrates screenshots of certain components of an example of a "myNet" channel that is suitable for use in enterprise applications, according to the present invention;

[0043] Figure 57 illustrates screenshots of certain components of an example of a "Sales Pipeline" channel that is suitable for use in enterprise applications, according to the present invention;

[0044] Figure 58 illustrates screenshots of certain components of an example of an "Open Room" channel that is suitable for use in enterprise applications, according to the present invention;

[0045] Figures 59, 60, and 61 illustrate screenshots of certain components of an example of a "Security Threat Trends" channel that is suitable for use in enterprise applications, according to the present invention;

[0046] Figure 62 illustrates a block diagram of an example of an enterprise user hierarchy that shows individual users, roles assigned to users, and/or users assigned to groups within an enterprise, according to the present invention;

[0047] Figure 63 illustrates a screenshot of an analyst client GUI that includes an example of a channel grid for users (i.e., analysts) in an analysts group of the enterprise, according to the present invention;

[0048] Figure 64 illustrates a screenshot of a manager client GUI that includes an example of a channel grid for users (i.e., managers) in a managers group of the enterprise, according to the present invention;

[0049] Figure 65 illustrates a screenshot of an example of a channel application catalog that includes content that corresponds to users (i.e., managers) in the managers group of the enterprise, according to the present invention;

[0050] Figure 66 illustrates a screenshot of a director client GUI that includes an example of a channel grid for users (i.e., directors) in a directors group of the enterprise, according to the present invention;

[0051] Figure 67 illustrates a screenshot of an example of a channel application catalog that includes content that corresponds to users (i.e., directors) in the directors group of the enterprise, according to the present invention;

[0052] Figure 68 illustrates screenshots of certain components of an example of an "Alerts" channel that is suitable for use in enterprise applications, according to the present invention;

[0053] Figure 69 illustrates screenshots of certain components of an example of a "Personnel Activity" channel that is suitable for use in enterprise applications, according to the present invention;

[0054] Figure 70 illustrates screenshots of certain components of an example of a "Reports" channel that is suitable for use in enterprise applications, according to the present invention;

[0055] Figure 71 illustrates screenshots of certain components of an example of a "User Administration" channel that is suitable for use in enterprise applications, according to the present invention;

[0056] Figure 72 illustrates screenshots of certain components of an example of a "Catalog Administration" channel that is suitable for use in enterprise applications, according to the present invention;

[0057] Figure 73 illustrates a functional block diagram of an example of a personal information delivery application architecture for supporting a web presentation framework of the information delivery system, according to the present invention;

[0058] Figure 74 illustrates a functional block diagram of an example of a client architecture of the personal information delivery application for supporting the web presentation framework, according to the present invention;

[0059] Figure 75 illustrates a screenshot of an example of a web browser, which is running on a user device, for displaying a web page of a channel grid to the user, according to the present invention;

[0060] Figure 76 illustrates a screenshot of the web browser displaying a web page of a "Home Security" channel that is operating in a substantially full-screen mode, according to the present invention;

[0061] Figure 77 illustrates another screenshot of the web browser, which is running on a user device, for displaying a web page of another channel grid to the user, according to the present invention; and

[0062] Figure 78 illustrates a screenshot of the web browser displaying a web page of a "Stock Watch" channel that is operating in a substantially full-screen mode, according to the present invention.

[0063] It should be appreciated that all combinations of the foregoing concepts and additional concepts discussed in greater detail below (provided such concepts are not mutually inconsistent) are contemplated as being part of the inventive subject matter disclosed herein. It should also be appreciated that terminology explicitly employed herein that also may appear in any disclosure incorporated by reference should be accorded a meaning most consistent with the particular concepts disclosed herein.

DETAILED DESCRIPTION

[0064] Various embodiments of the present invention describe an information delivery system for, and methods of, interaction with multiple information forms across multiple types, brands, and/or models of electronic devices, such as mobile devices (e.g., cell phones), portable devices (e.g., tablets, laptop computers), desktop computers, and televisions (e.g., set top boxes, intelligent TVs). In one example, the invention provides a system for and methods of interfacing with televisions via a graphical user interface and secure receipt of information relating to television programming.

[0065] The information delivery system for and methods of the invention provide the display of and access to secure user-centric information via the construct of a channel grid framework serving as a desktop on a user device. The channel grid framework includes multiple user-selectable items that provide access to corresponding "channels" by which respective portions of user-centric information are delivered to a user. The user and the user device are first authenticated to receive the secure user-centric information, and the user-selectable items included in the channel grid framework on the desktop for the user device are based on information access rights and security protocols defined for the corresponding channels, the user, and the user device.

[0066] Referring to Figure 1, a high level block diagram of an example of an information delivery system 100 that includes a personal information delivery (PID) application 112 for interaction with multiple information forms across multiple types, brands, and/or models of electronic devices is presented. Information delivery system 100 may include an application server 110 upon which is installed the PID application 112 that has access to one or more information sources 114. One or more users 116 are associated with information delivery system 100. Users 116 may be, for example, individuals or groups of individuals. Each user 116 may have one or more user devices 118. Application server 110, the one or more information sources 114, and user devices 118 may be connected to a network 120 by any wired and/or wireless means. Network 120 may be, for example, any local area network (LAN) and/or wide area network (WAN) for connecting to the Internet.

[0067] Application server 110 may be a networked computer, such as the networked server of the owner and/or provider of PID application 112. The one or more information sources 114 may be, for example, networked computers of the owners and/or providers of the information stored thereon. For example, certain information 122 may be stored on information sources 114. Information 122 may be any information that can be delivered electronically over network 120 and that is capable of being consumed by users 116 via their user devices 118. More particularly, information 122 of the one or more information sources 114 may include different types and/or forms of information, data, and/or content. Examples of information 122 may include, but are not limited to, text, graphics, pictures, 3D graphic visualization of objects, sound, sensor data, streaming media data (e.g., streaming video and audio data), web-services data, Really Simple Syndication (RSS) feeds, image data, eventing and alerting, raw data, any type of information, and the like.

[0068] Information 122 of information sources 114 may be any information that resides outside of the application server 110 environment. However, with regard to information to be consumed by users 116 via their user devices 118, the invention is not limited to "external" information sources, such as information sources 114. Users 116 may also consume information from "internal" information sources (not shown), which are any information sources that reside directly at application server 110 and/or directly at user devices and/or from sensors contained on or communicating with user devices 118.

[0069] PID application 112 is a software application that facilitates user interaction with multiple information forms across multiple types, brands, and/or models of electronic devices (e.g., user devices 118). Generally, PID application 112 is operating under a client-server model of computing in which application server 110 is the server and each user device 118 is the client.

[0070] Preferably, user devices 118 have a runtime environment that includes, but is not limited to, the following attributes.

1. capability to access multiple different operating systems,
2. capability to access any information that is exposed at the device level,

3. capability to allow software and/or information updates without interrupting the device and/or service (i.e., "hot" updates),
4. capability to operate offline,
5. capability to maintain state information, and
6. any combinations thereof.

[0071] An example of such a runtime environment is the Adobe® AIR® 2.5 runtime (available from Adobe Systems Inc, San Jose, CA) and the HTML5 runtime. HTML5 is the next major revision of the HTML standard, which is currently under development.

[0072] SYSTEM ARCHITECTURE SUPPORTING THE "FLEX" PRESENTATION FRAMEWORK

[0073] For the purpose of illustration, Figures 1 through 11 describe the system architecture of information delivery system 100 of the present invention implemented for supporting the Flex presentation framework. In one example, the Flex presentation framework may be implemented using Adobe® Flex® from Adobe Systems Incorporated (San Jose, CA). Adobe® Flex® is an open source framework for building highly interactive, expressive web applications that deploy consistently on all major browsers, desktops, and operating systems by leveraging the Adobe Flash Player and Adobe AIR® runtimes. In this example, user devices 118 (i.e., client devices) are any Adobe AIR-enabled devices. Examples of user devices 118 may include, but are not limited to, any type, brand, and/or model of Adobe AIR-enabled desktop computer; Adobe AIR-enabled laptop computer; Adobe AIR-enabled tablet computer; Adobe AIR-enabled net-book computing device; Adobe AIR-enabled handheld computing device; Adobe AIR-enabled personal digital assistant; Adobe AIR-enabled enterprise digital assistant; Adobe AIR-enabled portable digital assistant; Adobe AIR-enabled telecommunications device including one of an Adobe AIR-enabled telephone, Adobe AIR-enabled cell phone, and Adobe AIR-enabled smart phone; Adobe AIR-enabled personal navigation device; Adobe AIR-enabled vehicle-based device; Adobe AIR-enabled optical disk player; Adobe AIR-enabled television; Adobe AIR-enabled game console; and the like.

[0074] Therefore, an aspect of information delivery system 100 of the invention is that its operation is not limited to any particular type, brand, and/or model of client device and/or to any particular operating system (OS). That is, the operation of information delivery system 100 of the invention is substantially device-agnostic and/or OS-agnostic because it may operate, for example, on substantially any Adobe AIR-enabled client device. Additionally, information delivery system 100 of the invention is substantially information type-agnostic and/or information source-agnostic.

[0075] User devices 118 serve as a user platform operated by a user 116 to facilitate display of, and interaction with, secure user-centric information. Preferably, the set of user devices 118 belonging to each respective user 116 is connected in a peer-to-peer (P2P) fashion. In one example, the user devices 118 of a certain user 116 may include a mobile device (e.g., cell phone), a portable device (e.g., tablet, laptop computer), a desktop computer, and a television (e.g., set top box, intelligent TV). In this example, the user's cell phone, tablet, laptop computer, desktop computer, and television are connected (wired and/or wirelessly) in a P2P fashion.

[0076] PID application 112 of the invention provides a personalized information delivery utility that includes one or more sets of processor-executable instructions executing on one or more processors controlling various other hardware devices, with client-server system architecture, to facilitate delivery of a wide variety of information to a user, via one or more user devices or "platforms" (clients). Information is displayed on a graphical user interface (GUI) of a given user platform in a "presentation framework" that is customized based on a "user context." The presentation framework is homogenous amongst different user platforms so as to facilitate user familiarity and ease of interaction with displayed information. The presentation framework also facilitates the user's ability to take meaningful "real-time" action(s) in response to the displayed information.

[0077] The "user context" may be with respect to user attributes, such as, but not limited to, identity of the user, an identifier for one or more user devices associated with the user, location, activity, role, event, and any combinations thereof. Further, the "user context" may be with respect to user preferences, such as, but not limited to, source(s) of information of interest to the user, category/type of information of