UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/837,402	09/25/2018 10084991		ASA-9567-06	6521
24956	7590 09/05/2018			

MATTINGLY & MALUR, PC 1800 DIAGONAL ROAD SUITE 210 ALEXANDRIA, VA 22314 UNITED STATES OF AMERICA

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):

Kazunori IWABUCHI, Yokohama, JAPAN; Maxell, Ltd., Kyoto, JAPAN; Hiroki MIZOSOE, Kawasaki, JAPAN; Mutsumi SHIMODA, Kawasaki, JAPAN; Setiawan BONDAN, Yamato, JAPAN; Manabu SASAMOTO, Yokohama, JAPAN;

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 <u>SelectUSA.gov</u>.

IR103 (Rev. 10/09)

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: <u>Mail</u> Mail Stop ISSUE FEE **Commissioner for Patents** P.O. Box 1450 Alexandria, Virginia 22313-1450

(571)-273-2885 or <u>Fax</u>

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)

24956 7590 06/08/2018 MATTINGLY & MALUR, PC 1800 DIAGONAL ROAD **SUITE 210** ALEXANDRIA, VA 22314 UNITED STATES OF AMERICA

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.			FIRST NAMED INVENTOR			EV DOCKET NO	CONFIRMATION NO.
	FILING DATE						
15/837,402	12/11/2017		Kazunori IWABUCHI		AS	SA-9567-06	6521
TITLE OF INVENTION	: TELEVISION RECEI	VER WITH A TV PHON	E FUNCTION				
APPLN. TYPE	APPLN. TYPE ENTITY STATUS ISSUE FEE DUE		PUBLICATION FEE DUE PREV. PAID ISSUE		E FEE TOTAL FEE(S) DUE		DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0	\$0		\$1000	09/10/2018
				1			
EXAM		ART UNIT	CLASS-SUBCLASS	J			
NGUYEN		2652	348-014040				
1. Change of corresponde CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the p	10,		1 Mattingly &	Malur, PC
Change of corresp	ondence address (or Cha 3/122) attached.	nge of Correspondence	(1) The names of up to or agents OR, alternativ	vely,		s - <u> </u>	
			(2) The name of a single registered attorney or a	le firm (having as a gent) and the nam	t member es of up t	a 2	
PTO/SB/47; Rev 03-0 Number is required.	ication (or "Fee Address 2 or more recent) attach	ed. Use of a Customer	2 registered patent attor listed, no name will be	rnevs or agents. If	no name i	s 3	
3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)							
					ee is iden	tified below, the do	ocument has been filed for
(A) NAME OF ASSI		pletion of this form is NU	(B) RESIDENCE: (CITY				
(A) NAME OF ASSI				and STATE OR C	John K.	1)	
Maxell, Ltd.			Kyoto, Japan				
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent): \Box	Individual 🛚 🖸 Co	orporation	or other private gro	up entity 🔲 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Plea	ise first reapply a	1y previo	usly paid issue fee s	shown above)
🖾 Issue Fee			A check is enclosed.				
	to small entity discount _l		Payment by credit car				
Advance Order - #	of Copies		The director is hereby overpayment, to Depo	authorized to char sit Account Numb	ge the requ er <u>50-14</u>	uired fee(s), any def <u>17 </u>	iciency, or credits any 1 extra copy of this form).
5. Change in Entity Sta	tus (from status indicate	d above)					
- ° ·	ng micro entity status. Se		<u>NOTE:</u> Absent a valid cer	rtification of Micro	Entity St	atus (see forms PTC	D/SB/15A and 15B), issue
Applicant assertin	g small entity status. See	27 CEP 1 27	fee payment in the micro entity amount will not be accepted at the risk of application abandonment.				
			<u>NOTE:</u> 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.			<u>NOTE:</u> 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 b	e signed in accordance v	with 37 CFR 1.31 and 1.3	3. See 37 CFR 1.4 for signa	ature requirements	and certifi	ications.	
Authorized Signature	/John R. Mattinglv/			Date Aug	gust 2	3, 2018	
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Typed or printed nam				Registration N	1030,29	10	
			Page 2 of 3				
			1 age 2 01 5			IPR2020-	00200

PTOL-85 Part B (10-13) Approved for use through 10/31/2013.

OMB 0651-0033

U.S. Paten Apple the Content of the Apple 2 COMMERCE

Electronic Patent Application Fee Transmittal						
Application Number:	15837402					
Filing Date:	11-	Dec-2017				
Title of Invention: A COMMUNICATION APPARATUS AND METHOD FOR RECEIVI INBOUND VIDEOPHONE CALL NOTICE WHILE DISPLAYING DIG INFORMATION ON THE DISPLAY.						
First Named Inventor/Applicant Name:	ne: Kazunori IWABUCHI					
Filer:	John Roberts Mattingly/Krista Hargrove					
Attorney Docket Number:	Attorney Docket Number: ASA-9567-06					
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	1000	1000	
				IPR2020		

Apple Inc. EX1002 Page 3

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
	Tot	al in USD	(\$)	1000

Electronic Ac	knowledgement Receipt
EFS ID:	33513809
Application Number:	15837402
International Application Number:	
Confirmation Number:	6521
Title of Invention:	A COMMUNICATION APPARATUS AND METHOD FOR RECEIVING AN INBOUND VIDEOPHONE CALL NOTICE WHILE DISPLAYING DIGITAL INFORMATION ON THE DISPLAY.
First Named Inventor/Applicant Name:	Kazunori IWABUCHI
Customer Number:	24956
Filer:	John Roberts Mattingly
Filer Authorized By:	
Attorney Docket Number:	ASA-9567-06
Receipt Date:	23-AUG-2018
Filing Date:	11-DEC-2017
Time Stamp:	14:30:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes			
Payment Type	CARD			
Payment was successfully received in RAM	\$1000			
RAM confirmation Number	082418INTEFSW14305200			
Deposit Account	501417			
Authorized User John Mattingly				
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:				
37 CFR 1.16 (National application filing, search, and examination fees)				
37 CFR 1.17 (Patent application and reexamination processing fees)				

Apple Inc. EX1002 Page 5

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.
		1233209		
lssue Fee Payment (PTO-85B)	9567-06-issuefeetransmittal.pdf	26c04f727bb3ef00e494b27be6b8ca58d42 a6ce4	no	1
	-		I	
		30833		2
2 Fee Worksheet (SB06)	fee-info.pdf	096eceb88c5431c881c4ea8b91e60ce95161 d8b4	no	
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	Fee Worksheet (SB06) dgement Receipt evidences recei	Fee Worksheet (SB06) fee-info.pdf Total Files Size (in bytes): dgement Receipt evidences receipt on the noted date by the US by the applicant, and including page counts, where applicable.	Issue Fee Payment (PTO-85B) 9567-06-issuefeetransmittal.pdf 26:04/727bb3ef00e494b27be6b8ca58d42 a6ce4 30833 Fee Worksheet (SB06) fee-info.pdf 096eceb88c5431c681c4ea8b91e60ce9516 dB04 12 dgement Receipt evidences receipt on the noted date by the USPTO of the indicated by the applicant, and including page counts, where applicable. It serves as evidence	Issue Fee Payment (PTO-85B) 9567-06-issuefeetransmittal.pdf no 2604727b3d600e496b27be608ca58d42 no Fee Worksheet (SB06) fee-info.pdf 30833 9567-06-issuefeetransmittal.pdf 100 100 096cccb88c5431c681c4ea8b91e60ce9516f no 100 1264042 1264042

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.

UNIT	TED STATES PATEN	T AND TRADEMARK OFFICE		
		Ū	NITED STATES DEPARTMENT United States Patent and Trade ddress: COMMISSIGNER FOR P P.O. Box 1450 Alexandria, Virginia 22313-145 www.uspto.gov	emark Office ATENTS
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/837,402	12/11/2017	Kazunori IWABUCHI	ASA-9567-06	6521
	7590 08/03/201 & MALUR, PC	8	EXAN	IINER
1800 DIAGON SUITE 210			NGUYEN	, KHAI N
ALEXANDRIA	A, VIRGINIA 22314		ART UNIT	PAPER NUMBER
UNITED STAT	TES OF AMERICA		2652	
			NOTIFICATION DATE	DELIVERY MODE
			08/03/2018	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):

ptomail@mmiplaw.com

Response to Rule 312 Communication	Application No.	Applican	t(s)
	15/837,402	IWABUCHI et al.	
	Examiner	Art Unit	AIA Status
	KHAI N NGUYEN	2652	No

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

1. The amendment filed on <u>24 July 2018</u> 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.

Amendment under Rule 312 to change the Title filed on 07/24/2018 has been entered.

/Khai N. Nguyen/ Primary Examiner, Art Unit 2652

Reponse to Rule 312 Communication

Part of Paper No. 20180730

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Kazunori IWABUCHI

Confirmation No. 6521

Serial No. : 15/837,402

Filed : November 12, 2017

For : A COMMUNICATION APPARATUS AND METHOD FOR RECEIVING AN INBOUND VIDEOPHONE CALL NOTICE WHILE DISPLAYING DIGITAL INFORMATION ON THE DISPLAY (as amended)

Group : 2652

Examiner : Khai N. NGUYEN

Docket No. : ASA-9567-06

Customer No.: 24956

AMENDMENT UNDER 37 CFR §1.312

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

July 24, 2018

Sir:

Following the mailing of the Notice of Allowance mailed June 8, 2018, the

following amendments and remarks are respectfully submitted in connection with the

above-identified application.

Amendments to the Title begin on page 2 of this paper.

Remarks are included following the amendments.

	JNITED STATE	s Patent	and Tradema	UNITED ST United Stat Address: COMM P.O. Bo	hria, Virginia 22313-1450
APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS IND CLAIMS
15/837,402	12/11/2017	2652	2020	ASA-9567-06	16 4
15/837,402 12/11/2017 2652 2020 24956 MATTINGLY & MALUR, PC 1800 DIAGONAL ROAD SUITE 210 ALEXANDRIA, VA 22314					CONFIRMATION NO. 6521 CTED FILING RECEIPT

Date Mailed: 08/03/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

Inventor(s)

Kazunori IWABUCHI, Yokohama, JAPAN; Hiroki MIZOSOE, Kawasaki, JAPAN; Mutsumi SHIMODA, Kawasaki, JAPAN; Setiawan BONDAN, Yamato, JAPAN; Manabu SASAMOTO, Yokohama, JAPAN;

Applicant(s)

Maxell, Ltd., Kyoto, JAPAN;

Power of Attorney: The patent practitioners associated with Customer Number 24956

Domestic Priority data as claimed by applicant

This application is a CON of 15/631,298 06/23/2017 which is a CON of 15/215,839 07/21/2016 PAT 9723268 which is a CON of 14/811,048 07/28/2015 PAT 9432618 which is a CON of 13/723,312 12/21/2012 PAT 9124758 which is a CON of 12/457,257 06/04/2009 PAT 8363087

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <u>http://www.uspto.gov</u> for more information.) JAPAN 2008-246232 09/25/2008 No Access Code Provided

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 01/11/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/837,402**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

A COMMUNICATION APPARATUS AND METHOD FOR RECEIVING AN INBOUND VIDEOPHONE CALL NOTICE WHILE DISPLAYING DIGITAL INFORMATION ON THE DISPLAY.

Preliminary Class

348

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific page 2 of 4

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

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 U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

page 3 of 4

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page 4 of 4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Kazunori IWABUCHI

Confirmation No. 6521

Serial No. : 15/837,402

Filed : November 12, 2017

For : A COMMUNICATION APPARATUS AND METHOD FOR RECEIVING AN INBOUND VIDEOPHONE CALL NOTICE WHILE DISPLAYING DIGITAL INFORMATION ON THE DISPLAY (as amended)

Group : 2652

Examiner : Khai N. NGUYEN

Docket No. : ASA-9567-06

Customer No.: 24956

AMENDMENT UNDER 37 CFR §1.312

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

July 24, 2018

Sir:

Following the mailing of the Notice of Allowance mailed June 8, 2018, the

following amendments and remarks are respectfully submitted in connection with the

above-identified application.

Amendments to the Title begin on page 2 of this paper.

Remarks are included following the amendments.

Serial No. 15/837,402 Amendment Under 37 CFR §1.312 filed July 24, 2018

Amendments to the Title:

Please replace the original title of the invention with the following amended title:

TELEVISION RECEIVER WITH A TV PHONE FUNCTION A COMMUNICATION

APPARATUS AND METHOD FOR RECEIVING AN INBOUND VIDEOPHONE CALL

NOTICE WHILE DISPLAYING DIGITAL INFORMATION ON THE DISPLAY.

Serial No. 15/837,402 Amendment Under 37 CFR §1.312 filed July 24, 2018

REMARKS

This paper is filed subsequent to the Notice of Allowance having a USPTO

mailing date of June 8, 2018.

The foregoing minor amendment is believed to be necessary, and

accordingly, consideration and entry of the amendments is respectfully requested.

No new matter has been added. It is believed that this minor amendment does not

affect the allowability of the claims.

Respectfully submitted,

MATTINGLY & MALUR, PC

/John R. Mattingly/ John R. Mattingly Registration No. 30,293 703-684-1120

Electronic A	cknowledgement Receipt
EFS ID:	33263887
Application Number:	15837402
International Application Number:	
Confirmation Number:	6521
Title of Invention:	TELEVISION RECEIVER WITH A TV PHONE FUNCTION
First Named Inventor/Applicant Name:	Kazunori IWABUCHI
Customer Number:	24956
Filer:	John Roberts Mattingly
Filer Authorized By:	
Attorney Docket Number:	ASA-9567-06
Receipt Date:	24-JUL-2018
Filing Date:	11-DEC-2017
Time Stamp:	14:41:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted wi	th Payment	no			
File Listin	g:				
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
			18459		
1		9567-06-312Amd.pdf	4980461917a58d48704889871613a504e25 fb78f	yes	3

	Multipart Description/PDF files in .zip description				
	Document Description	Start	End		
	Amendment after Notice of Allowance (Rule 312)	1	1		
	Claims	2	2		
	Applicant Arguments/Remarks Made in an Amendment	3	3		
Warnings:					
Information:					
	Total Files Size (in bytes):	18	459		

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. <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. 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

24956 7590 06/08/2018 MATTINGLY & MALUR, PC 1800 DIAGONAL ROAD SUITE 210 ALEXANDRIA, VA 22314 UNITED STATES OF AMERICA EXAMINER NGUYEN, KHAI N ART UNIT PAPER NUMBER

2652

DATE MAILED: 06/08/2018

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.				
15/837,402	12/11/2017	Kazunori IWABUCHI	ASA-9567-06	6521				
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TITLE OF INVENTION: TELEVISION RECEIVER WITH A TV PHONE FUNCTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0	\$O	\$1000	09/10/2018

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. 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 <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. 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: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

Page 1 of 3

PTOL-85 (Rev. 02/11)

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: <u>Mail</u> Mail Stop ISSUE FEE **Commissioner for Patents** P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (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)

24956 7590 06/08/2018 MATTINGLY & MALUR, PC 1800 DIAGONAL ROAD **SUITE 210** ALEXANDRIA, VA 22314 UNITED STATES OF AMERICA

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.

(Depo	sitor's name)
	(Signature)
	(Date)

APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	. 4	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/837,402	12/11/2017	•	Kazunori IWABUCHI	•	ASA-9567-06	6521
TITLE OF INVENTION	N: TELEVISION RECEI	VER WITH A TV PHON	IE FUNCTION			
APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0	\$0	\$1000	09/10/2018
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PTO/SB/47; Rev 03- Number is required	02 or more recent) attach	ed. Use of a Customer	2 registered patent atto listed, no name will be	rneys or agents. If no printed.	o name is 3	
			THE PATENT (print or ty	. /		
PLEASE NOTE: Un recordation as set for	lless an assignee is ident th in 37 CFR 3.11. Com	tified below, no assignee pletion of this form is NC	data will appear on the p T a substitute for filing an	atent. If an assignee assignment.	is identified below, the d	ocument has been filed for
(A) NAME OF ASSI			(B) RESIDENCE: (CITY			
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Please check the approp	riate assignee category or	r categories (will not be p	rinted on the patent):	Individual 🖵 Corp	poration or other private gr	oup entity 📮 Government
4a. The following fee(s) \Box	are submitted:	4	b. Payment of Fee(s): (Plea	ase first reapply any	previously paid issue fee	shown above)
Issue Fee	No small entity discount	nermitted)	A check is enclosed. Payment by credit car	rd Form PTO-2038 is	sattached	
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			overpayment, to Depo	osit Account Number	(enclose a	n extra copy of this form).
5. Change in Entity Sta	atus (from status indicate	ed above)				
Applicant certifyi	ing micro entity status. Se	ee 37 CFR 1.29	<u>NOTE:</u> Absent a valid ce fee payment in the micro	rtification of Micro E entity amount will ne	Entity Status (see forms PT ot be accepted at the risk of	O/SB/15A and 15B), issue application abandonment.
Applicant asserting	ng small entity status. See	e 37 CFR 1.27	<u>NOTE:</u> If the application to be a notification of los	was previously unde	r micro entity status, check	ing this box will be taken
Applicant changing	ng to regular undiscounte	ed fee status.		x will be taken to be	a notification of loss of enti	tlement to small or micro
NOTE: This form must	be signed in accordance v	with 37 CFR 1.31 and 1.3	3. See 37 CFR 1.4 for sign		d certifications.	
Authorized Signature	e			Date		
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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SUITE 210			ART UNIT	PAPER NUMBER
ALEXANDRIA, V UNITED STATES			2652	
	or million		DATE MAILED: 06/08/201	8

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. IPR2020-00200

Apple Inc. EX1002 Page 22

	Application No.	Applicant(s)	•
	15/837,402		ET AL.
Notice of Allowability	Examiner KHAI N. NGUYEN	Art Unit 2652	AIA (First Inventor to File) Status
		2002	No
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED in this ap) or other appropriate communication (IGHTS. This application is subject t)	plication. If no n will be mailed	t included in due course. THIS
1. This communication is responsive to <u>Applicants' Amendme</u> A declaration(s)/affidavit(s) under 37 CFR 1.130(b) wa			
 2. An election was made by the applicant in response to a response to a requirement and election have been incorporated into this a 	striction requirement set forth during	the interview o	n; the restriction
3. ☑ The allowed claim(s) is/are <u>1-16</u> . As a result of the allowed Highway program at a participating intellectual property off http://www.uspto.gov/patents/init_events/pph/index.jsp or s	ice for the corresponding application	. For more info	
4. 🛛 Acknowledgment is made of a claim for foreign priority und	er 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 hav	e been received.		
2. 🛛 Certified copies of the priority documents hav	–		
3. Copies of the certified copies of the priority do	ocuments 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' noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	' of this communication to file a reply MENT of this application.	complying with	the requirements
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in the 0	Office action of	
 Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT F 	the header according to 37 CFR 1.121(BIOLOGICAL MATERIAL must be su	d). ubmitted. Note	
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. 🔲 Examiner's Amendr		
2. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	6. 🔲 Examiner's Stateme	ent of Reasons	for Allowance
3. Examiner's Comment Regarding Requirement for Deposit	7. 🔲 Other		
of Biological Material			
4. Interview Summary (PTO-413), Paper No./Mail Date			
/KHAI N NGUYEN/			
Primary Examiner, Art Unit 2652			
U.S. Patent and Trademark Office	•		

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PTOL-37	(Rev.	08-13)

Notice of Allowability

Part of Paper No./Mail Date 20180529

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Piurals	Time Stamp
SI			US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/09 13:46
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33	2		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR		2014/12/09 13:48
S4	1		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/09 13:53
35			US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DEFWENT; IBM_TDB	OR	ON	2014/12/09 13:56
S6	0		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR		2014/12/09 15:13
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7 23 "20/07/07/08" "6013866" "2014006556" "2014006556" "2014006556" "20140015916") pn. 0.5 PGPUE 0.5 PGPU	36	117		USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2014/12/ 22:33
38 15 120070070188" 8013336" *20140009558" *20140015916"), pn. US-RPUE USPAT; USOAR OR USPAT; USOAR ON USPAT; USOAR 01 40 0 338 and ((stop\$4 halt\$3) with camera) US-RPUE USPAT; USOAR OR USPAT; USOAR OR USPAT; USPAT; USOAR OR USPAT;	37	23	("2007070188" "6013936" "2014009559" "2014009558" "2014015916"),pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	
40 0 S38 and ((stop\$4 halt\$3) with camera) US PGPUE USPAT; USODR; FFRS; FFRS; ON 2015/04 LSODR; FFRS; 41 11752 30155/0072;H04Mf1/72572;H04Mf2201/40;H04Mf2260/52;H04Mf2/4936,5191;H04N2007/145;H04Nf21/254,42203,4223,431,4788;H04N5/272;H04N7/14,141,142,144,147,148,15,152,155,157,17318;H04W4/18,185,CPC; USPAT; USODR; FFRS;	38	15	("20070070188" "8013938" "20140009559" "20140009558" "20140015916").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	
41 117520 SQ155/0072;H04M1/72572;H04M2201/40;H04M2250/52;H04M8/4936,5191;H04M2007/145;H04M21/254,42203,4223,431,4788;H04M5/272;H04M7/14,141,142,144,147,148,15,152,155,157,17318;H04W4/18,185.OPC. USPRT: USPRT: 11.08 USPA1 USPRT: USPRT: </td <td>40</td> <td>0</td> <td>\$38 and ((stop\$4 halt\$3) with camera)</td> <td>US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;</td> <td>OR</td> <td>ON</td> <td></td>	40	0	\$38 and ((stop\$4 halt\$3) with camera)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	
42 37197 346/14.01,14.02,14.03,14.04,14.05,14.06,14.07,14.08,14.09,14.1,14.11,14.12,14.13,14.14,15.15,14.16;379/265.03,455/414.1,566;704/270.cds.	41	117520		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	
	42	37197	348/14.01,14.02,14.03,14.04,14.05,14.06,14.07,14.08,14.09,14.1,14.11,14.12,14.13,14.14,15.15,14.16;379/265.03;455/414.1,566;704/270.cds.	US-PGPUB; USPAT;	a a	ON	4

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
43	137		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2015/04/2 [.] 11:10
44	91	S43 and @ad<="20060925"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/04/2 11:10
45	7		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/04/2 11:13
46	37		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/04/2 12:49
47	23		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/04/2 12:50
50	2		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2016/10/2 13:41
61	6		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2016/10/2 13:43
52	0		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2016/10/2 13:45
33	81352		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2016/10/2 13:49
64	143723	G0155/0072;H04M1/72572;H04M2201/40;H04M2250/52;H04M8/4936;5191;H04N2007/145;H04N21/254;42203;423;431;4788;H04N5/272;H04N7/14;141;142;144;147;148;15;152;155;157;17318;H04W4/18;185;OPC		OR	ON	2016/10/2 13:50
65	40696		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/10/2 13:50
66	33		us-Pgpub; Uspat	OR	ON	2016/10/2 13:50
67	**********	("5710591" "5467388" "6859526" "5771065").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;		ON	2016/10/2
3		IPR2020-0 httistory.15837402_Accessible/Version.btm[52292018 4:41:29 PM] Apple Inc. EX1002 Pag			3	A

68	4	4	US-PGPUB:			ON	2016/10/2
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39			US-PGPUB:			ON	2016/10/2
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70	07	"#6339842" "6529742" "7593031" "8013938" "826355" "8363067" "8676273" "9124756").PN		05	ş	01	100101101
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	6	(videophone video-phone video-telephone) and (video with camera with predeterm\$4 with (period time) with stop\$4)	DERWENT; IBM_TDB US-PGPUB; USPAT;	OR		ON	2016/10/: 10:17
	6	(videophone video-phone video-telephone) and (video with camera with predeterm\$4 with (period time) with stop\$4)	DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR;	OR		ON	
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'9		(videophone video-telephone) and (video with camera with predeterm\$4 with (period time) with stop\$4)	DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB				10:17
79	6	(videophone video-phone video-telephone) and (video with camera with predeterm\$4 with (period time) with stop\$4) (videophone video-phone video-telephone) and (camera with predeterm\$4 with (period time) with stop\$4)	DERWENT; IBM TDB USPGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM TDB USPGPUB; USPAT:			ON ON	10:17
79		(videophone video-felephone) and (video with camera with predeterm\$4 with (period time) with stop\$4) (videophone video-felephone) and (camera with predeterm\$4 with (period time) with stop\$4)	DERWENT; IBM TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; USPAT; USPAF; USPAF;	OR			10:17
'9		(videophone video-felephone) and (video with camera with predeterm\$4 with (period time) with stop\$4) (videophone video-felephone) and (camera with predeterm\$4 with (period time) with stop\$4)	DERWENT; IBM TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; USPAT; USPAF; USPAF;	OR			10:17
9		(videophone video-phone video-telephone) and (video with camera with predeterm\$4 with (period time) with stop\$4)	DERWENT; IBM TDB US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM TDB US-PGPUB; USOCR; FFRS; EPO; JPO; DERWENT;	OR			10:17
9	7	(videophone video-phone video-telephone) and (video with camera with predeterm\$4 with (period time) with stop\$4)	DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; USOCR; ISM_TDB USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR		ON	2016/10/2 10:18
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102	265		US-PGPUB; USPAT;	OR	ON	2017/12
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3113	8	\$5112 and ((echo\$3 with cancel\$6) same microphone same (speaker loudspeaker))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2017/12/1 12:35
5114	2	SF113 and @ad<="20080925"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/1 12:36
3115	45	(*20010041053* *20(2019964* *20030041333* *20030206720* *20040128700* *20050250531* *20060041926* *20060212920* *20070070188* *20070094691* *20070139514* *20070216760* *2007023839* *20070261091* *20060174278* *20060172969* *20060212940* *2006003759* *20060013778 *20060073253* *20060073253* *200600718762* *20060174762* *20160251526* *20100073455* *20130033561* *20130127977* *20150334352* *567388* *5526037* *5528285* *5610653* *5684918* *5710591* *5771065* *5778053* *6339642* *6529742* *6859526* *7599031* *8013938* *3263555* *8363087* *8676273* *9124756* *9432618*).PN.	US-PGPUB; USPAT	OR	ON	2018/01/ 12:27
5116	167926	GO155/0072;H04M1/72572;H04M2201/40;H04M2250/52;H04M8/4936;5191;H04M2007/145;H04M21/254;42203;4223;431;4788;H04M5/272;H04M7/14;141;142;144;147;148;15;152;155;157;17318;H04W4/18;185;CPC	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/01/3 14:13
3117	43033	348/14.01,14.02,14.03,14.04,14.05,14.06,14.07,14.08,14.09,14.1,14.11,14.12,14.13,14.14,15.15,14.16,379/265.03,455/414.1,566;704/270.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/01/ 14:13
3118		US-20070070188 § or US-20080174762.§ or US-20090251526.§ or US-20070094691.§ or US-2010041053.§ or US-20040126700.§ or US-20130127977.§ or US-20030041333.§ or US-20150334352.§ or US- 20100073455.§ or US-20070261091.§ or US-200802009759.§ or US-20050250531.§) did. or (US-8363087.§ or US-20140128700.§ or US-9432618.§ or US-9124758.§ or US-5710591.§ or US-5467388.§ or US-5771065.§ or US-6859526.§ or US-5778053.§) did. or (JP-08289280.§) did. or (US-20100073455.§ or US-20070070188.§) did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2018/01/ 14:14
3119	45	20010041053" 20020019984" 20030041333" 20030205720" 20040126700" 20050250531" 20060041926" 20060212920" 20070070188" 20070094691" 20070139514" 20070216760" 2007023839" 2006001373" 2006001373" 2006001373" 2006001373" 2006001373" 200600174762" 20060251526" 20100073455" 20100073455" 20100073455" 20100073455" 20100073455" 20100073455" 20100073561" 20130127977" 20150334352" 567388" 5526037" 5526285" 5610653" 5684918" 5710591" 5771065" 5778053" 6339642" 6529742" 6639526" 7599031" 8013938" 3226355" 8630387" 5672032" 5672032" 562742" 7622012" 7599031" 8013938" 3226355" 5864918" 57710591" 5771065" 5778053" 6339642" 6529742" 7639526" 7599031" 8013938" 3226355" 5864918" 57710591" 57710591" 5778053" 56339642" 5629742" 7639526" 7599031" 8013938" 3226355" 5864918" 57710591" 5771055" 5778053" 56339642" 5629742" 7639526" 7599031" 8013938" 3226355" 5864918" 57710591" 5771055" 5778053" 56339642" 5629742" 7639526" 7599031" 8013938" 522635" 5864918" 57710591" 5771055" 5778053" 56339642" 5629742" 7639526" 7599031" 8013938" 5664918" 57710591" 57710591" 5778053" 56339642" 5639742" 5639526" 57599031" 8013938" 5576053" 5640153" 56778053" 5664918" 5778053" 56778053" 5639642" 5639742" 5639526" 5689526" 559742" 56778053" 5664918" 5771059" 5771059" 5778053" 5639642" 5639742" 5639742" 5639742" 5639742" 56778053" 5664918" 5778053" 56	US-PGPUB; USPAT	OR	ON	2018/01/ 14:15
\$120	23000	(SI 16 SI 17 SI 18 SI 19) and ((TV television settop (set near top)) same (videophone (video near (phone telephone)) telephone phone))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2018/01/ 14:18
3121	18912	S120 and ((TV television settop (set near top)) with (videophone (video near (phone telephone)) telephone phone))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2018/01/ 14:19
122	15097	S120 and ((television settop (set near top)) with (videophone (video near (phone telephone)) telephone phone))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2018/01/ 14:19
3123	1007	S120 and ((television settop (set near top)) with (videophone (video near (phone telephone))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2018/01/ 14:20
3124	90	S123 and (echo\$3 with (cancel\$3 cancellation cancellation))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2018/01/ 14:24
125	50	S124 and @ad<="20080925"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2018/01/ 14:24
126	465014	((TV television settop (set near top)) same (videophone (video near (phone telephone)) telephone phone)) IPR2020-0	US-PGPUB; USPAT; USOCR;		ON	2018/01/ 14:24
1)	s IPR2020-0 httlistory.13837402_AccessableVersion.htm(529/2018 4:41:29 PM) Apple Inc. EX1002 Pag			4	3

		l	epo; Jpo; Derwent; IBM_tdb	-	
			US-PCPUB; OR USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ON	2018/01/31 14:25
S128	206		US-PGPUB; OR USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ON	2018/01/31 14:26
S129			US-PGPUB; OR USPAT; USOCR; FPRS; EPO; JPO; DEFRWENT; IBM_TDB	ON	2018/01/31 14:26
S130	131		US-PGPUB; OR USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ON	2018/01/31 14:26
\$132	2		US-PGPUB; OR USPAT; USOCR; FPRS; EPO; JPO; DEFWENT; IBM_TDB	ON	2018/01/31 14:28
S133			US-PGPUB; OR USPAT; USOCR; FPRS; EPO; JPO; DEFWENT; IBM_TDB	ON	2018/01/31 14:34
S134	6		US-PGPUB;;OR USPAT; USOCR; FPRS; EPO; JPO; DEFWENT; IBM_TDB	ON	2018/02/01 10:26

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	N	Time Stamp
S48	40707		us- Pgpub Uspat	OR	ON	2015/04/21 12:55
S49	26946	348/14 01, 14.02, 14.03, 14.04, 14.05, 14.06, 14.07, 14.08, 14.09, 14.1, 14.11, 14.12, 14.13, 14.14, 15.15, 14.16;379/265.03;455/414.1.566;704/270.cds.	us: Pgpub Uspat		ON	2015/04/21 12:55
350	0		us- Pgpub Uspat	OR	ON	2015/04/21 13:07
S51	3	done terminal(S3) and camera).dm.	us: Pgpub Uspat	OR	ON	2015/04/21 13:08
352	0		us- Pgpub Uspat		ON	2015/04/21 13:17
\$53			us- Pgpub Uspat	OR	ON	2015/04/21 13:17
354	0	(instruction command) same camera).clm.	us- Pgpub Uspat		ON	2015/04/21 13:18
355	0	(\$48 549) and (video same audio same network same display\$3 same (speaker loudspeaker) same (inbound incoming call) same (stop\$4 finish\$3 complet\$3 done terminat\$3) same (instruction command) same camera).clm.	us: Pgpub Uspat	OR	ON	2015/04/21 13:18
\$56	3	(video same audio same network same display\$3 same (speaker loudspeaker) same (videophone communicat\$3) same (inbound incoming call) same (middle during) same (stop\$4 finish\$3 complet\$3 done terminat\$3) same (instruction command) same camera).dm.	US- PGPUB USPAT	OR	3	2015/04/21 13:19
\$57		done terminat(\$3) same (instruction command) same camera).dm.	US- PGPUB USPAT		ON	2015/04/21 13:20
\$58	0	(network same (video near8 display\$3) same (audio near8 (speaker loudspeaker)) same (videophone communicat\$3) same (inbound incoming call) same (middle during) same (stop\$# 📺 😭 20-0	02	200	ON	

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		terminat\$3) same (instruction command) same camera).clm.	PGPUB; USPAT			13:21
S59	0	(network same (video near8 display\$3) same (audio near8 (speaker loudspeaker)) same (inbound incoming call) same (stop\$4 finish\$3 complet\$3 done terminat\$3) same (instruction command) same camera).dm.	us: Pgpub; Uspat	OR	ON	2015/04/21 13:22
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S86	28324	348/14.01, 14.02, 14.03, 14.04, 14.05, 14.06, 14.07, 14.08, 14.09, 14.1, 14.11, 14.12, 14.13, 14.15, 15, 14.16;379/265.03;455/414.1,566;704/270.cds.	us: Pgpub; Uspat	OR	ON	2017/03/22 13:56
S87	1	(S85 *12*) and (video and network and content and server and encod\$3 and camera and decod\$3 and display\$3 and (incoming call inbound) and videophone and (middle during) and (stop finish\$3 complet\$3 done terminat\$3) and (suspen\$4\$4 halt\$3) and (instruction command)).clm.	us- Pgpub; Uspat	OR	ON	2017/03/22 14:05
S88	1	(video and network and content and server and encod\$3 and camera and decod\$3 and display\$3 and (incoming call inbound) and videophone and (middle during) and (stop finidh\$3 complet\$3 done terminat\$3) and (suspen\$4\$4 halt\$3) and (instruction command)).dm.	us: Pgpub; Uspat	OR	ON	2017/03/22 14:06
S135	24951	G0155/0072;H04M1/72572;H04M2201/40;H04M2250/52;H04M3/4936;5191;H04M2007/145;H04M21/254;42203;4223;431;4788;H04N5/272;H04M7/14;141;142;144;147;148;15;152;155;157;17318;H04W4/18;185;OPC;	USPAT	OR	ON	2018/05/29 16:10
S136	16312	348/14.01,14.02,14.03,14.04,14.05,14.06,14.07,14.08,14.09,14.1,14.11,14.12,14.13,14.14,15.15,14.16;379/265.03;455/414.1,566;704/270.cds.	USPAT	OR	ON	2018/05/29 16:11
S137	1	(\$135 \$136) and (video and network and content and server and camera and display\$3 and (incoming call inbound) and (notice notif§4 notification) and videophone and (stop finish\$3 complet§3 done terminat§3) and (suspen\$4\$4 halt\$3 paus\$3)). dm.	us: Pgpub; Uspat	OR	ON	2018/05/29 16:38
S138	1 ⁻ 1	(video and network and content and server and camera and display\$3 and (incoming call inbound) and (notice notif\$4 notification) and videophone and (stop finish\$3 complet\$3 done terminat\$3) and (suspen\$4\$4 halt\$3 paus\$3)).clm.	us: Pgpub; Uspat	OR	ON	2018/05/29 16:38

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C:/ Users/knguyen23/ Documents/ EAST/ Workspaces/ 15_837402_15_631298_CON_15_215839_CON_14_811048_CON_12_457257_CON_13_723312_01_30_2018.wsp

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	15837402	IWABUCHI ET AL.
	Examiner	Art Unit
	KHAI N NGUYEN	2652

Cumphial			Turne	Varaian
Symbol			Туре	Version
H04N	7	17318	F	2013-01-01
H04N	21	42203	1	2013-01-01
H04N	21	4223	1	2013-01-01
H04N	21	4788	1	2013-01-01
H04L	65	1063	1	2013-01-01
H04N	7	/ 148	1	2013-01-01
H04N	7	147	1	2013-01-01

CPC Combination Sets				
Symbol	Туре	Set	Ranking	Version

NONE		Total Clain	ns Allowed:			
(Assistant Examiner)	(Date)	16				
/KHAI N NGUYEN/ Primary Examiner.Art Unit 2652	05/29/2018	O.G. Print Claim(s)	O.G. Print Figure			
(Primary Examiner)	(Date)	1	2			

U.S. Patent and Trademark Office

Part of Paper No. 20180529

	Application/Control No.	Applicant(s)/Patent Under Reexamination					
Issue Classification	15837402	IWABUCHI ET AL.					
	Examiner	Art Unit					
	KHAI N NGUYEN	2652					

US ORIGINAL CLASSIFICATION						INTERNATIONAL CLASSIFICATION									
	CLASS SUBCLASS					CLAIMED NON-CLAIMED								CLAIMED	
348 14.04					н	0	4	Ν	7 / 14 (2006.01.01)						
CROSS REFERENCE(S)															
CLASS	CLASS SUBCLASS (ONE SUBCLASS PER BLOCK)				CK)										
348	14.01	14.07													

NONE	Total Claims Allowed:					
(Assistant Examiner)	(Date)	16				
/KHAI N NGUYEN/ Primary Examiner.Art Unit 2652	05/29/2018	O.G. Print Claim(s)	O.G. Print Figure			
(Primary Examiner)	(Date)	1	2			

U.S. Patent and Trademark Office

Part of Paper No. 20180529

	Application/Control No.	Applicant(s)/Patent Under Reexamination					
Issue Classification	15837402	IWABUCHI ET AL.					
	Examiner	Art Unit					
	KHAI N NGUYEN	2652					

⊠	Claims renumbered in the same order as presented by applicant							СР	A 🗵	T.D.	۵] R.1.4	47		
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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2	2														
3	3														
4	4														
5	5														
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12	12														
13	13														
14	14														
15	15														
16	16														

NONE	Total Claims Allowed:			
(Assistant Examiner)	(Date)	1	6	
/KHAI N NGUYEN/ Primary Examiner.Art Unit 2652	05/29/2018	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	1	2	

U.S. Patent and Trademark Office

Part of Paper No. 20180529
	Application/Control No.	Applicant(s)/Patent Under Reexamination
Search Notes	15837402	IWABUCHI ET AL.
	Examiner	Art Unit
	KHAI N NGUYEN	2652

CPC- SEARCHED									
Symbol	Date	Examine r							
G01S5/0072;H04M1/72572;H04M2201/40;H04M2250/52;H04M3/4936,5191	2/1/2018	KNN							
H04N2007/145;H04N21/254,42203,4223,431,4788	2/1/2018	KNN							
H04N5/272;H04N7/14,141,142,144,147,148,15,152,155,157,17318;H04W4/18, 185	2/1/2018	KNN							
Updated the above searches.	5/29/201 8	KNN							

CPC COMBINATION SETS - SEARCHED							
Symbol	Date	Examiner					

US CLASSIFICATION SEARCHED									
Class	Subclass	Date	Examiner						
348	14.01,14.02,14.03,14.04,14.05,14.06,14.07,14.08,14.09, 14.1,14.11,14.12,14.13,14.14,15.15,14.16	2/1/2018	KNN						
379	265.03	2/1/2018	KNN						
455	414.1,566	2/1/2018	KNN						
704	270	2/1/2018	KNN						
348;379;455; 704	Updated the above searches.	5/29/2018	KNN						

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES									
Search Notes	Date	Examiner							
East - US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2/1/2018	KNN							
East - CPC and USPC searches.	2/1/2018	KNN							
NPL search.	2/1/2018	KNN							

/KHAI N NGUYEN/ Primary Examiner.Art Unit 2652

SEARCH NOTES

Search Notes	Date	Examiner
G01S5/0072;H04M1/72572;H04M2201/40;H04M2250/52;H04M3/4936,51 91	2/1/2018	KNN
H04N2007/145;H04N21/254,42203,4223,431,4788	2/1/2018	KNN
H04N5/272;H04N7/14,141,142,144,147,148,15,152,155,157,17318;H04W 4/18,185 (See search history)	2/1/2018	KNN
Updated East & CPC & USPC & NPL & Interference/Claim(s) searches.	5/29/2018	KNN

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
G01S5	0072	5/29/2018	KNN
H04M1	72572	5/29/2018	KNN
H04M2201	40	5/29/2018	KNN
H04M2250	52	5/29/2018	KNN
H04M3	4936,5191	5/29/2018	KNN
H04N2007	145	5/29/2018	KNN
H04N21	254,42203,4223,431,4788	5/29/2018	KNN
H04N5	272	5/29/2018	KNN
H04N7	14,141,142,144,147,148,15,152,155,157,17318	5/29/2018	KNN
H04W4	18,185	5/29/2018	KNN
348	14.01,14.02,14.03,14.04,14.05,14.06,14.07,14.08,14.09 ,14.1,14.11,14.12,14.13,14.14,15.15,14.16	5/29/2018	KNN
379	265.03	5/29/2018	KNN
455	414.1	5/29/2018	KNN
704	270	5/29/2018	KNN

/KHAI N NGUYEN/ Primary Examiner.Art Unit 2652

Bibliographic Data

Application No: 15/837,40	02			
Foreign Priority claimed:	• Yes	ONO		
35 USC 119 (a-d) conditions met:	Ves Yes	No		Met After Allowance
Verified and Acknowledged:	/Khai N. Ng	uyen/		
	Examiner's S	ignature		Initials
Title:	TELEVISIC	N RECEIVE	ER WITH A	A TV PHONE FUNCTION

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
12/11/2017	348	2652	ASA-9567-06
RULE			

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Manabu SASAMOTO Yokohama, JAPAN

CONTINUING DATA

This application is a CON of 15631298 06/23/2017

15631298 is a CON of 15215839 07/21/2016 PAT 9723268

15215839 is a CON of 14811048 07/28/2015 PAT 9432618

14811048 is a CON of 13723312 12/21/2012 PAT 9124758

13723312 is a CON of 12457257 06/04/2009 PAT 8363087

FOREIGN APPLICATIONS

JAPAN 2008-246232 09/25/2008

IF REQUIRED, FOREIGN LICENSE GRANTED**

01/11/2018

STATE OR COUNTRY

JAPAN

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ALEXANDRIA, VA 22314

UNITED STATES

FILING FEE RECEIVED

\$6,160

					Application/Control No.			Applicant(s)/Patent Under Reexamination							
Index of Claims				15837402			IWABUCHI ET AL.								
						Examiner				Art Uni	t				
								2652							
✓ Rejected -			С	ancelled	ed N Non-Elected			ected		Α	A Appeal				
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	Claims r	enumbered	in the s	ame	order as	s presented by ap	plica	ant		СРА	X] T.C	D.		R.1.47
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F	inal	Original	02/01/2	2018	05/29/20	018									
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	2	2	✓		=										
	3	3	✓		=										
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	16	16	✓		=										

Part of Paper No.: 20180529

Doc Code: DIST.E.FILE Document Description: Electror	nic Terminal Disclaimer - Filed	PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce
Electronic Petition Request	TERMINAL DISCLAIMER TO "PRIOR" PATENT	OBVIATE A DOUBLE PATENTING REJECTION OVER A
Application Number	15837402	
Filing Date	11-Dec-2017	
First Named Inventor	Kazunori IWABUCHI	
Attorney Docket Number	ASA-9567-06	
Title of Invention	TELEVISION RECEIVER WITH	I A TV PHONE FUNCTION
Filing of terminal disclaimer Office Action	does not obviate requirement for	response under 37 CFR 1.111 to outstanding
This electronic Terminal Disc	laimer is not being used for a Joir	it Research Agreement.
Owner		Percent Interest
MAXELL, LTD.		100%
	n of any patent granted on the ins	l cation hereby disclaims, except as provided below, the tant application which would extend beyond the expiration
9723268		
9432618		
9124758		
8363087		

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:

expires for failure to pay a maintenance fee;

- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;

is reissued; or

- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

• Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicant claims the following fee status:

Small Entity

- Micro Entity
- Regular Undiscounted

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

THIS PORTION MUST	BE COMPLETED	BY THE SIGNATORY	OR SIGNATORIES
		DI THE JIGHATON	ON SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

 An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Registration Number 30293

A sole inventor

A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application

A joint inventor; all of whom are signing this request

Signature	/John R. Mattingly/
Name	John R. Mattingly

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal					
Application Number:	158	15837402			
Filing Date:	11-	11-Dec-2017			
Title of Invention:	TELEVISION RECEIVER WITH A TV PHONE FUNCTION				
First Named Inventor/Applicant Name:	Kazunori IWABUCHI				
Filer:	John Roberts Mattingly				
Attorney Docket Number:	ASA-9567-06				
Filed as Large Entity					
Filing Fees for Utility under 35 USC 111(a)					
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:					
STATUTORY OR TERMINAL DISCLAIMER		1814	1	160	160
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Post-Allowance-and-Post-Issuance:					

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
	Tot	al in USD	(\$)	160

Doc Code: DISQ.E.FILE Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 15837402

Filing Date: 11-Dec-2017

Applicant/Patent under Reexamination: IWABUCHI

Electronic Terminal Disclaimer filed on April 25, 2018

APPROVED

This patent is subject to a terminal disclaimer

DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt					
EFS ID:	32436299				
Application Number:	15837402				
International Application Number:					
Confirmation Number:	6521				
Title of Invention:	TELEVISION RECEIVER WITH A TV PHONE FUNCTION				
First Named Inventor/Applicant Name:	Kazunori IWABUCHI				
Customer Number:	24956				
Filer:	John Roberts Mattingly				
Filer Authorized By:					
Attorney Docket Number:	ASA-9567-06				
Receipt Date:	25-APR-2018				
Filing Date:	11-DEC-2017				
Time Stamp:	14:54:03				
Application Type:	Utility under 35 USC 111(a)				

Payment information:

Submitted with Payment	yes			
Payment Type	CARD			
Payment was successfully received in RAM	\$160			
RAM confirmation Number	042618INTEFSW14540100			
Deposit Account	501417			
Authorized User	John Mattingly			
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:				
37 CFR 1.16 (National application filing, search, and examination fees)				
37 CFR 1.17 (Patent application and reexamination processing fees)				

Apple Inc. EX1002 Page 48

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.
			35057		
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	1b52856ecdf413c35f4016556c85a4e4b372 6f39	no	3
Warnings:			<u> </u>		
Information:					
			30663		
2	Fee Worksheet (SB06)	fee-info.pdf	1cb0908a9f06bd452732b8da86f4f19679a4 6972	no	2
Warnings: Information:					
		Total Files Size (in bytes)	: 6	5720	
characterized Post Card, as <u>New Applicat</u> If a new appli 1.53(b)-(d) an Acknowledge <u>National Stag</u>	edgement Receipt evidences receipt l by the applicant, and including pag described in MPEP 503. <u>ions Under 35 U.S.C. 111</u> cation is being filed and the applicat d MPEP 506), a Filing Receipt (37 CF ement Receipt will establish the filing <u>le of an International Application un</u> pmission to enter the national stage	e counts, where applicable. tion includes the necessary o R 1.54) will be issued in due g date of the application. <u>der 35 U.S.C. 371</u>	It serves as evidence components for a filin course and the date s	of receipt si g date (see hown on th	imilar to 37 CFR is
U.S.C. 371 and national stage <u>New Internat</u>	d other applicable requirements a Fo e submission under 35 U.S.C. 371 wil ional Application Filed with the USP pational application is being filed an	orm PCT/DO/EO/903 indicati II be issued in addition to the <u>TO as a Receiving Office</u>	ng acceptance of the e Filing Receipt, in du	application e course.	as a

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

Applicant(s) : MAXELL, LTD.

Serial No. : 15/837,402

Filed : December 11, 2017

For : TELEVISION RECEIVER WITH A TV PHONE FUNCTION

Group : 2652

Examiner : Khai N. NGUYEN

Docket No. : ASA-9567-06

Customer No.: 24956

AMENDMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 April 25, 2018

Confirmation No.: 6521

Sir:

In response to the Office Action mailed February 6, 2018, please amend the

above-identified patent application as follows.

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 10 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 communication apparatus for transmitting and receiving digital information to and from another communication apparatus, comprising:

a network interface configured to receive first digital information which is received from a contents server which is coupled to the communication apparatus via the network interface and second digital information from the another communication apparatus;

a camera configured to generate video information which is included in third digital information;

a display configured to display <u>at least the first and the second</u> digital information; and

a processor;

wherein when the processor receives an inbound videophone call notice while displaying the first digital information on the display, the processor pauses the displaying of the first digital information and renders the camera operative;

wherein the processor outputs the third digital information to the another communication apparatus and displays the second digital information of the

Page 2 of 12

videophone call on the display; and

wherein when the processor receives an input for stopping the videophone call, the processor stops output of the third digital information and stops the camera.

 (Original) The communication apparatus according to claim 1, wherein after the videophone call is finished, the processor restarts the displaying of the first digital information.

3. (Original) The communication apparatus according to claim 2, further comprising a microphone configured to generate audio information which is included in the third digital information.

4. (Original) The communication apparatus according to claim 3,

wherein when the processor receives the inbound videophone call notice while displaying the first digital information on the display, the processor switches a function of processing video information of the first digital information to a function of processing video information of the second digital information of the videophone call.

5. (Original) The communication apparatus according to claim 4, wherein when the processor receives an input for making an outbound videophone call to the another communication apparatus, the processor renders the

Page 3 of 12

camera and microphone operative and displays information indicating the outbound videophone call on the display calling message.

6. (Original) The communication apparatus according to claim 5, further comprising an echo canceller which cancels an audio signal of the first digital information from an audio signal that is output from the microphone.

7. (Original) The communication apparatus according to claim 6,

wherein the processor processes the first digital information with an HTML browser.

8. (Original) A method for transmitting and receiving digital information for a communication apparatus,

wherein the communication apparatus comprises a camera, a network interface, a display and a processor; and

wherein the method is executed by the processor,

the method comprising the steps of:

displaying first digital information which is received from a contents server

which is coupled to the communication apparatus via the network interface;

upon receiving an inbound videophone call notice while playing the first digital information,

pausing the displaying of the first digital information;

Page 4 of 12

rendering the camera operative;

receiving second digital information from the another communication

apparatus via the network interface;

generating video information which is included in third digital information

by the camera;

displaying the second digital information on the display; and

outputting the third digital information to an another communication

apparatus;

upon receiving an input for stopping the videophone call,

stopping output of the third digital information; and

stopping the camera.

9. (Original) The method according to claim 8, further comprising the step

of:

restarting the displaying of the first digital information after the videophone call is finished.

10. (Original) The method according to claim 9,

wherein the communication apparatus further comprises a microphone, and the method further comprising the step of:

generating audio information which is included in the third digital information by the microphone. 11. (Original) The method according to claim 10, further comprising the step of:

upon receiving the inbound videophone call notice while displaying the first digital information,

switching a function of processing video information of the first digital information to a function of processing video information of the second digital information of the videophone call.

12. (Original) The method according to claim 11, further comprising the steps of:

upon receiving an input for making an outbound videophone call to the another communication apparatus,

rendering the camera and microphone operative; and

displaying information indicating the outbound videophone call on the display at the same time.

13. (Original) The method according to claim 12,

wherein the communication apparatus further comprising an echo canceller,

the method further comprising the step of:

cancelling an audio signal of the first digital information form an audio signal

Page 6 of 12

that is output from the microphone by the echo canceller.

14. (Currently amended) The method according to claim 13, further comprising the step of:

processing the first digital information with an HTML (Hypertext Markup Language) browser.

15. (Currently amended) A communication apparatus for transmitting and receiving digital information to and from another communication apparatus, comprising:

a network interface configured to receive first digital information which is received from a contents server which is coupled to the communication apparatus via the network interface and second digital information from the another communication apparatus;

a camera configured to generate video information which is included in a third digital information;

a display configured to display <u>at least the first and the second</u> digital information; and

a processor;

wherein when the processor receives an inbound videophone call notice while displaying the first digital information on the display, the processor renders the camera operative;

wherein the processor outputs the third digital information to the another communication apparatus, displays the first digital information on the display and displays the second digital information of the videophone call on the display, simultaneously; and

wherein when the processor receives an input for stopping the videophone call, the processor stops output of the third digital information and stops the camera.

16. (Currently amended) A communication apparatus for transmitting and receiving digital information to and from another communication apparatus, comprising:

a network interface configured to receive first digital information which is received from a contents server which is coupled to the communication apparatus via the network interface and second digital information from the another communication apparatus;

a camera configured to generate video information which is included in third digital information;

a microphone configured to generate audio information which is included in the third digital information;

a display configured to display <u>at least the first and the second</u> digital information; and

a processor;

wherein when the processor receives an inbound videophone call notice while storing a video signal from the camera and storing an audio signal from the microphone, the processor pauses the storing of the video signal and <u>the</u> audio signal the image pickup signal and renders the camera operative;

wherein the processor outputs the third digital information to the another communication apparatus and displays the second digital information of the videophone call on the display; and

wherein when the processor receives an input for stopping the videophone call, the processor stops output of the third digital information and restarts to store the video signal and the audio signal.

REMARKS

Claims 1-16 are pending in this application. Claims 1, 14, 15 and 16 have been amended. No new matter has been added.

Claim for Priority

Applicants appreciate the Examiner's acknowledgement of the claim for foreign priority and the safe receipt of the certified priority document.

<u>Drawings</u>

Applicant respectfully requests that the Examiner officially acknowledge the drawings filed on December 11, 2017.

Information Disclosure Statement

Applicants appreciate the Examiner's consideration of the references submitted in the Information Disclosure Statement filed December 11, 2017.

Rejections Under 35 U.S.C. §112

The Examiner has rejected claims 1-7 and 14-16 under 35 U.S.C. § 112(b) or 35 U.S.C. § 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

Page 10 of 12

It is submitted that the amendments to claims 1, 14 and 15 overcome the rejection under 35 U.S.C. §112. Claim 16 has been similarly amended to claim 15 and also to overcome the rejection under 35 U.S.C. §112.

Double Patenting Rejections

Claims 1-2 and 8-9 stand rejected on the ground of nonstatutory double patenting as being unpatentable over claim 1 of U.S. Patent No. 9,723,268, as being unpatentable over claims 1-2 and 5-6 of U.S. Patent No. 9,432,618, and as being unpatentable over claim 1 of U.S. Patent No. 9,124,758. Claims 1-3, 8 and 15 stand rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-3 and 8 of U.S. Patent No. 8,363,087. A Terminal Disclaimer is being submitted with this Reply to overcome the rejection, without admitting to its propriety.

Allowable Subject Matter

Applicant's acknowledge that the Examiner has indicated that claims 1-16 would be allowable if a timely filed terminal disclaimer to overcome the rejection based on a nonstatutory double patenting and if rewritten or amended to overcome the rejection under 35 U.S.C. § 112.

Conclusion

In view of the foregoing amendments and remarks, Applicants request reconsideration of the rejection and allowance of the claims.

The Commissioner is authorized to charge any shortage in the fees due, or

credit any overpayment, to Deposit Account No. 50-1417 (referencing Attorney

Docket No. ASA-9567-06).

Respectfully submitted,

MATTINGLY & MALUR, PC

<u>/John R. Mattingly/</u> John R. Mattingly Registration No. 30,293 703-684-1120

Electronic Acknowledgement Receipt					
EFS ID:	32436229				
Application Number:	15837402				
International Application Number:					
Confirmation Number:	6521				
Title of Invention:	TELEVISION RECEIVER WITH A TV PHONE FUNCTION				
First Named Inventor/Applicant Name:	Kazunori IWABUCHI				
Customer Number:	24956				
Filer:	John Roberts Mattingly				
Filer Authorized By:					
Attorney Docket Number:	ASA-9567-06				
Receipt Date:	25-APR-2018				
Filing Date:	11-DEC-2017				
Time Stamp:	14:55:52				
Application Type:	Utility under 35 USC 111(a)				

Payment information:

Submitted wi	th Payment	nc	no			
File Listin	g:					
Document Number	Document Description		File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
				81593		
1		95	567-06-AMD01.pdf	b51df7abc40e2a333048fe98427c2254702a 0b39	yes	12

	Multipart Description/PDF files in .zip description					
	Document Description	Start	End			
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1			
	Claims	2	9			
	Applicant Arguments/Remarks Made in an Amendment	10	12			
Warnings:						
Information:						
	Total Files Size (in bytes):	81	593			

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 STA United States Address: COMMIS PO. Box 1 Alexandria	a, Virginia 22313-1450
FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/11/2017	Kazunori IWABUCHI	ASA-9567-06
		CONFIRMATION NO. 6521
	PUBLICAT	
		C000000098913542*
	FILING OR 371(C) DATE 12/11/2017	United States Address: COMMIS Address: COMMIS Address: COMMIS Provide the second

Title: TELEVISION RECEIVER WITH A TV PHONE FUNCTION

Publication No.US-2018-0109761-A1 Publication Date:04/19/2018

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

page 1 of 1

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.
15/837,402	12/11/2017	Kazunori IWABUCHI	ASA-9567-06	6521
24956 7590 02/06/2018 MATTINGLY & MALUR, PC 1800 DIAGONAL ROAD SUITE 210			EXAMINER NGUYEN, KHAI N	
ALEXANDRIA	A, VA 22314		ART UNIT	PAPER NUMBER
			2652	
			NOTIFICATION DATE	DELIVERY MODE
			02/06/2018	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):

ptomail@mmiplaw.com

	Application No. 15/837,402	Applicant(s) IWABUCHI ET AL.				
Office Action Summary	Examiner KHAI N. NGUYEN	Art Unit 2652	AIA (First Inventor to File) Status No			
The MAILING DATE of this communication app Period for Reply	bears on the cover sheet with the	corresponder				
A SHORTENED STATUTORY PERIOD FOR REPL THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	— 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDON	mely filed h the mailing date (ED (35 U.S.C. § 13	of this communication. 33).			
Status						
1) Responsive to communication(s) filed on <u>12/1</u>						
A declaration(s)/affidavit(s) under 37 CFR 1.						
2a) This action is FINAL . 2b) ☐ This 3) An election was made by the applicant in resp	s action is non-final.	eet forth dur	ing the interview on			
	-					
	; the restriction requirement and election have been incorporated into this action. 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims*						
5)∑ Claim(s) <u>1-16</u> is/are pending in the application 5a) Of the above claim(s) is/are withdray 6)□ Claim(s) is/are allowed. 7)∑ Claim(s) <u>1-16</u> is/are rejected. 8)□ Claim(s) is/are objected to. 9)□ Claim(s) are subject to restriction and/or * If any claims have been determined allowable, you may be e participating intellectual property office for the corresponding a http://www.uspto.gov/patents/init_events/pph/index.jsp or send Application Papers 10)□ The specification is objected to by the Examine 11)□ The drawing(s) filed on is/are: a)□ acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	wn from consideration. or election requirement. ligible to benefit from the Patent Pro pplication. For more information, ple d an inquiry to <u>PPHfeedback@uspto.</u> er. epted or b) objected to by the drawing(s) be held in abeyance. Se	ase see gov. Examiner. e 37 CFR 1.85	5(a).			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign Certified copies: a) All b) Some** c) None of the: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the prior application from the International Bureat ** See the attached detailed Office action for a list of the certified 	ts have been received. ts have been received in Applica prity documents have been receiv u (PCT Rule 17.2(a)).	tion No. <u>13/7</u>				
Attachment(s) 1) X Notice of References Cited (PTO-892) 2) X Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/Paper No(s)/Mail Date U.S. Patent and Trademark Office	3) Interview Summary Paper No(s)/Mail D SB/08b) 4) Other:					
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PTOL-326 (Rev. 11-13)

Office Action Summary

PatPiR20201a0022000130 Apple Inc. EX1002 Page 66

The present application is being examined under the pre-AIA first to invent provisions.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 12/11/2017 was filed <u>on</u> the filing date of the instant application on 12/11/2017. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 112

The following is a quotation of 35 U.S.C. 112(b): (b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 1-7 and 14-16 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-

AIA), second paragraph, as being indefinite for failing to particularly point out and

distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA

the applicant regards as the invention.

■ Claims 1 and 15 recite the limitations "digital information" in line 2, and

"digital information" in line 10 of the claims. And thus, it is unclear whether "digital

information" is the same as "digital information" or not.

Appropriate correction is required.

Claim 14 recites an acronym <u>HTML</u> that need to be spelled out in the first claim that used the acronym to avoid any possible confusion now and in the future for the acronym may refer to different item or object. Appropriate correction is required.

Claim 16 recites the limitation "<u>the</u> *image pickup signal*" in line 17 of the claim. There is insufficient antecedent basis for this limitation in the claim. And thus, it is <u>unclear</u> whether "the image pickup signal" is the same as "a/the video signal" <u>or</u> not.

Appropriate correction is required.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the claims at issue are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit http://www.uspto.gov/forms/. The filing date of the application will determine what form should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to

http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-l.jsp.

2. Claims 1-2 and 8-9 are rejected on the ground of nonstatutory double patenting as being unpatentable over claim 1 of U.S. Patent No. 9,723,268, as being unpatentable over claims 1-2 and 5-6 of U.S. Patent No. 9,432,618, and as being unpatentable over claim 1 of U.S. Patent No. 9,124,758. Although the claims at issue are not identical, they are not patentably distinct from each other because:

Claim 1 of the instant application <u>recites similar and/or word-for-word</u> <u>limitations</u> as in claim 1 of the patent 9,723,268, and <u>omitted detail features</u> such as "an encoder which generates fourth digital information including encoded fourth video

information ...", "displays decoded first video information, decoded second video information or decoded third video information, wherein the first video information is decoded by the first decoder, and the second video information or the third video information is decoded by the second decoder", etc. Therefore, claim 1 of the instant application (i.e., omission of an element and its function) is broader than claim 1 of the patent 9,723,268.

Claims 1 and 8 of the instant application <u>recites similar and/or word-for-word</u> <u>limitations</u> as in claims 1 and 5 of the patent 9,432,618, and <u>omitted detail features</u> such as "an encoder configured to generate ... encoding a video signal generated by a camera", "a user input device ... accept an input from a user ...", "communicates with the content server for pausing a transmission ...", etc. Therefore, claims 1 and 8 of the instant application (i.e., <u>omission of an element and its function</u>) is <u>broader than</u> claims 1 and 5 of the patent 9,432,618.

Dependent claims 2 and 9 recite similar and/or word-for-word limitations as in claims 2 and 6 of the patent 9,432,618.

■ Claim 1 of the instant application <u>recites similar and/or word-for-word</u> <u>limitations</u> as in claim 1 of the patent 9,124,758, and <u>omitted detail features</u> such as "a second video information and a second audio information", "transmit … including a third video information and a third audio information … via the network", "output the first audio information and the second audio information through a speaker", etc. Therefore, claim 1 of the instant application (i.e., <u>omission of an element and its function</u>) is <u>broader than claim 1 of the patent 9,124,758</u>.

When <u>claims in the pending application are broader than the ones in the</u> <u>patent</u>, the <u>broad claims in the pending application are rejected under obviousness type</u> <u>double patenting over previously patented narrow claims</u>, In re Van Ornum and Stang, 214 USPQ 761. Also, <u>omission of an element and its function is an obvious expedient if</u> <u>the remaining elements perform the same functions as before</u>, In re KARLSON (CCPA) 136 USPQQ 184 (1963).

3. Claims 1-3, 8, and 15 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-3 and 8 of U.S. Patent No. 8,363,087 hereinafter "the patent claims '087" in view of Allen et al. (US-PGPUB 2003/0041333 A1 hereinafter "Allen").

Here, claims 1-3, 8, and 15 of the instant application recite similar and/or at least word-for-word limitations as in claims 1-3 and 8 of the patent, and <u>omitted detail features</u> such as "a television receiver with video telephone functions …", "a decoder …", "an encoder …", "a videophone communicator", "an output unit", and "a controller", etc., and <u>added obvious features</u> such as "a network interface" and "a content server" in the instant application; although the patent claims '087 recite "receiving a digital broadcast program signal …" (see the patent claims '087 – claim 1) which can be read on "a network interface" and "a content server", these obvious detail features are old and well known in the art (i.e., a network interface, and a content server).

Allen et al. teach a digital information receiving and transmitting apparatus comprises a network interface and a content server in FIG. 1, FIG. 2 and FIG. 3. Allen et al. further teach what is also needed is a system and method for automatically answering video calls in which a television program or other broadcast entertainment program is automatically buffered to allow a user to subsequently view the program in its entirety. Therefore, it would have been obvious to modify the patent claims '087 with a network interface and a content server to enhance a television receiver with video telephone functions, and one having ordinary skill in the art would have been motivated to make such a modification to answer video calls in which a television program or other broadcast entertainment program is automatically buffered to allow a super video calls in which a television program or other broadcast entertainment program is automatically buffered to allow a user to subsequently view the program or other broadcast entertainment program is automatically buffered to allow a user to subsequently view the program or other broadcast entertainment program is automatically buffered to allow a user to subsequently view the program in its entirety, as per the teachings of Allen et al.

In addition, claims 1, 8, and 15 of the instant application appears to be broader in scope than claims 1, 2, and 8 of the patent 8,363,087. As shown above, the claims of the pending application have the similar/word-for-word limitations as the patent claims '087; and omitted many detail features and added a mere field-of-use/extra insignificant solution/features such as "a network interface" and "a content server". Therefore, the claims of the instant application are broader than the patent claims '087.

When <u>claims in the pending application are broader than the ones in the</u> <u>patent</u>, the <u>broad claims in the pending application are rejected under obviousness type</u> <u>double patenting over previously patented narrow claims</u>, In re Van Ornum and Stang, 214 USPQ 761. Also, <u>omission of an element and its function is an obvious expedient if</u>
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the remaining elements perform the same functions as before, In re KARLSON (CCPA) 136 USPQQ 184 (1963).

<u>Note</u>: <u>A web-based eTerminal Disclaimer may be filled</u> out completely online using web-screens. <u>An eTerminal Disclaimer that meets all requirements is auto-</u> <u>processed and approved immediately upon submission</u>. For more information about eTerminal Disclaimers, refer to <u>www.uspto.gov/patents/process/file/efs/guidance/eTD-</u> <u>info-l.jsp</u>.

Allowable Subject Matter

Claims 1-16 would be allowable if a timely filed terminal disclaimer (A web-based eTerminal Disclaimer is recommended) in compliance with 37 CFR 1.321(b), 37 CFR 1.321(c) or 1.321(d) to overcome the rejection based on a nonstatutory double patenting ground, and if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), 2nd paragraph, set forth in this Office action.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is listed in attached PTO-892 form.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI N. NGUYEN whose telephone number is

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(571)270-3141. The examiner can normally be reached on Monday-Thursday 6:30AM - 5PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad F. Matar can be reached on (571) 272-7488. 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.

/KHAI N NGUYEN/ Primary Examiner, Art Unit 2652

02/01/2018

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Notice of References Cited	15/837,402 Examiner	Reexamination IWABUCHI ET AL Art Unit	<u>.</u>
	KHAI N. NGUYEN	2652	Page 1 of 3

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	А	US-5,467,388 A	11-1995	Redd, Jr.; James C.	H04M1/663	379/196
*	В	US-5,473,366 A	12-1995	Imaeda; Eiji	H04M1/6505	348/14.01
*	С	US-5,526,037 A	06-1996	Cortjens; Leo M.	H04N5/23203	348/14.04
*	D	US-5,684,918 A	11-1997	Abecassis; Max	A63F13/10	348/14.01
*	Е	US-5,710,591 A	01-1998	Bruno; Richard F.	H04M3/42221	348/14.06
*	F	US-5,771,065 A	06-1998	Hijikata; Toshiyuki	H04N7/147	348/14.01
*	G	US-5,778,053 A	07-1998	Skarbo; Rune A.	H04M11/10	348/14.06
*	Н	US-2001/0041053 A1	11-2001	ABECASSIS, MAX	A63F13/10	386/291
*	Ι	US-2003/0041333 A1	02-2003	Allen, Paul G.	H04N5/76	725/106
*	J	US-2004/0128700 A1	07-2004	Pan, Ming-Da	H04N5/76	725/136
*	К	US-6,859,526 B2	02-2005	Macklin; Lee Edward	H04M1/6505	348/14.06
*	L	US-2005/0250531 A1	11-2005	Takebe, Manabu	H04W52/0261	455/550.1
*	М	US-2007/0070188 A1	03-2007	Shyu; Fang-Yuan	H04N7/147	348/14.11

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N	JP 08289280 A	11-1996	N/A	SEKINE, MASANORI	
	0					
	Р					
	Q					
	R					
	s					
	Т					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited

Part of Paper No. 20180130

Notice of References Cited		Application/Control No. 15/837,402	Applicant(s)/F Reexaminatio IWABUCHI E	n	
		Examiner	Art Unit		
		KHAI N. NGUYEN	2652	Page 2 of 3	
U.S. PATENT DOCUMENTS					
	Decument Number	Data			

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification	
*	А	US-2007/0094691 A1	04-2007	Gazdzinski; Robert F.	H04N7/17318	725/62	
*	В	US-2007/0186002 A1	08-2007	Campbell; Robert Craig	H04N7/142	709/231	
*	С	US-2007/0261091 A1	11-2007	Tachikawa; Hirohide	H04N7/163	725/105	
*	D	US-2008/0309759 A1	12-2008	Wilson; Brian	G08B13/1968	348/143	
*	Е	US-2009/0079813 A1	03-2009	Hildreth; Evan	H04N7/147	348/14.03	
*	F	US-2009/0174762 A1	07-2009	Takahashi; Junichi	H04M1/72522	348/14.02	
*	G	US-2009/0251526 A1	10-2009	BOOK; Michael	H04N7/148	348/14.01	
*	Н	US-2010/0073455 A1	03-2010	lwabuchi; Kazunori	H04N7/142	348/14.04	
*	-	US-8,013,938 B2	09-2011	Shyu; Fang-Yuan	H04N7/147	348/14.04	
*	J	US-8,325,214 B2	12-2012	Hildreth; Evan	H04N7/147	348/14.03	
*	К	US-8,363,087 B2	01-2013	lwabuchi; Kazunori	H04N7/142	348/14.04	
*	L	US-2013/0127977 A1	05-2013	lwabuchi; Kazunori	H04N7/142	348/14.01	
*	М	US-9,124,758 B2	09-2015	lwabuchi; Kazunori	H04N7/142	1/1	

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	Ν					
	0					
	Р					
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	s					
	Т					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Part of Paper No. 20180130

Notice of References Cited	Application/Control No.Applicant(s)/Patent Unc15/837,402ReexaminationIWABUCHI ET AL.		
Notice of Hereneues offen	Examiner	Art Unit	
	KHAI N. NGUYEN	2652	Page 3 of 3

U.S. PATENT DOCUMENTS

*		Document Number	Date	Name	CPC Classification	US Classification
		Country Code-Number-Kind Code	MM-YYYY	Name	GFC Classification	
*	А	US-2015/0334352 A1	11-2015	IWABUCHI; Kazunori	H04N7/142	348/14.04
*	В	US-9,432,618 B2	08-2016	lwabuchi; Kazunori	H04N7/142	1/1
*	С	US-2016/0330409 A1	11-2016	IWABUCHI; Kazunori	H04N7/142	1/1
*	D	US-9,723,268 B2	08-2017	lwabuchi; Kazunori	H04N7/17318	1/1
*	Е	US-2017/0289502 A1	10-2017	IWABUCHI; Kazunori	H04N7/17318	1/1
	F	US-				
	G	US-				
	н	US-				
	I	US-				
	J	US-				
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	Ν					
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	Р					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	v	
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	x	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited

Part of Paper No. 20180130

(19)日本国特許庁(JP) (12) 公開特許公報(A)

(11)特許出願公開番号

特開平8-289280

(43) 公開日 平成8年(1996) 11月1日

(51) Int.Cl. ⁶		識別記号	庁内整理番号	FΙ			技術表示箇所
H04N	7/173			H04N	7/173		
	5/00				5/00	в	

審査請求 未請求 請求項の数4 OL (全 8 頁)

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(54)【発明の名称】 ビデオオンデマンドシステムおよびそのセンタ側装置

(57)【要約】

【目的】 加入者側のポーズ操作に応じて番組の提供を 一時中断した場合には、その間の回線使用料を加入者側 に負担させることができるようにし、これによりセンタ 側が被る不利益の低減を図る。

【構成】 センタ側装置110の各番組送出装置130 に課金タイマ117を設け、番組送出中に加入者側装置 12においてポーズ操作が行なわれた場合に、センタ側 装置110において番組送出動作を一時停止するととも に、この一時停止期間中における回線使用量を上記課金 タイマ117で課金するようにしたものである。



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【請求項1】 必要時にセンタ側装置と加入者側装置と を回線を介して接続し、加入者側装置からセンタ側装置 に対して放送番組のリクエストを行なうことで、センタ 側装置から加入者側装置へ前記リクエストに対応する放 送番組を提供するビデオオンデマンドシステムにおい て、

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前記加入者側装置は、

前記放送番組の提供中にこの番組の提供の一時中断およ びその解除を指示するためのポーズ信号を前記回線を介 10 してセンタ側装置へ送出するポーズ信号送出手段を備 え、

かつ前記センタ側装置は、

前記加入者側装置からのボーズ信号を受信し、このボー ズ信号の指示に応じて前記回線の接続を保持したまま放 送番組の提供を一時中断するボーズ制御手段と、 このポーズ制御手段による放送番組の提供中断期間中 に、前記接続保持中の回線に対する課金処理を行なう課 金手段とを備えたことを特徴とするビデオオンデマンド システム。

【請求項2】 課金手段は、前記放送番組の提供中断期 間を計時するためのタイマを備え、このタイマによる計 時時間を基に課金処理を行なうことを特徴とする請求項 1記載のビデオオンデマンドシステム。

【請求項3】 課金手段は、加入者側装置から放送番組 中断期間の計時時間情報を受信し、この計時時間情報を 基に課金処理を行なうことを特徴とする請求項1記載の ビデオオンデマンドシステム。

【請求項4】 必要時にセンタ側装置と加入者側装置と を回線を介して接続し、加入者側装置からセンタ側装置 に対して放送番組のリクエストを行なうことで、センタ 側装置から加入者側装置へ前記リクエストに対応する放 送番組を提供するとともに、この放送番組の提供中にこ の番組の提供の一時中断およびその解除を指示するポー ズ信号を加入者側装置からセンタ側装置へ送出すること で、前記放送番組の提供を一時中断する機能を備えたビ デオオンデマンドシステムで使用される前記センタ側装 置において、

前記放送番組の提供中断期間中に、接続保持中の回線に 対する課金処理を行なう課金手段を備えたことを特徴と するセンタ側装置。

【発明の詳細な説明】

[0001]

【産業上の利用分野】本発明は、加入者がセンタに対し て放送番組のリクエストを行なうことで、センタから加 入者へリクエストに応じた番組を個別に提供するビデオ オンデマンドシステムに係わり、特に加入者の要求に応 じて放送番組の提供を一時中断するポーズ機能を備えた システムに関する。

[0002]

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【従来の技術】近時、CATVの普及に伴い、インタラ クティブ(双方向)テレビジョン放送が注目されつつあ る。この放送の一形態として、加入者がセンタに対して 放送番組のリクエストを行なうことで、センタから加入 者へリクエストのあった番組を個別に提供するシステム が構築されている。一般にこの放送システムはビデオオ ンデマンド(以下、VODと記す)システムと呼ばれて いる。

【0003】図3は一般的なVODシステムの構成を示 すもので、11はセンタ側装置、12は加入者側装置で あり、両装置11,12は回線制御装置13によって管 理される公衆回線網等の回線を通じて接続される。

【0004】センタ側装置11は、番組格納装置111 と複数(図では3個)の番組送出装置112を備える。 番組格納装置111は、ハードディスク等の記録媒体に ディジタルテレビジョン信号による提供番組の情報デー タ(以下、番組データと称する)を格納しておくもので ある。番組送出装置112はそれぞれ回線接続要求のあ った加入者側装置12と接続され、当該加入者側装置1

20 2からの番組要求信号に応じて、番組格納装置111から対応する番組データを読出して加入者側装置12に送出する機能を有する。

【0005】一方、加入者側装置12は、回線接続要求 信号、番組要求信号等の送信、メニュー、番組等のデー タ受信を行なうVODアダプタ121と、このVODア ダプタ121を遠隔操作するためのリモートコントロー ラ(以下、リモコンと称する)122を備えている。 【0006】VODアダプタ121は、TV(テレビジ

ョン) 受像機123に接続されており、リモコン122 の選択操作を判別して、回線制御装置13への回線接続 要求信号の送出、およびセンタ側装置11への番組要求 信号の送出を行なうと共に、センタ側装置11からのメ ニューデータや番組データ等を受信して、この受信した メニューや番組に対応するテレビジョン信号をTV受像 機123に供給するものである。

【0007】この加入者側装置12には、予め特定のア ドレス(以下、加入者アドレスと称する)が付与されて おり、センタ側装置はこの加入者アドレスによりデータ 送信元を識別してデータ送信先を特定するようにしてい る。

【0008】尚、以下の説明ではセンタ側装置から加入 者側装置への流れを下り回線、加入者側からセンタ側へ の流れを上り回線として述べる。上記構成において、一 連の処理動作を以下に説明する。

【0009】先ず、視聴者(加入者)がリモコン122 より視聴要求操作を行なうと、VODアダプタ121は これを判別して、センタ側装置11を指定する送り先ア ドレスと自己の加入者アドレスとを付加した回線接続要 求信号を上り回線に送出する。回線制御装置13は、送 50 り先アドレスに基づいてその加入者側装置12をセンタ

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側装置11に接続する。これによって、回線接続要求信 号がセンタ側装置11に送られる。

【0010】一方、センタ側装置11は、回線接続要求 信号から加入者アドレスを判別して、番組送出装置11 2の一つを要求のあった加入者側装置12に割り当て、 これによりVODアダプタ121との回線を接続してそ の通信リンクを確立したのち、要求元の加入者アドレス を付加した番組データを下り回線に送出する。

【0011】ここで、番組データにはメニューチャンネ ルが含まれており、このメニューチャンネルには提供可 能な番組や選択操作方法等を含むメニューデータが常時 乗せられている。VODアダプタ121は、先ずこのメ ニューチャンネルのデータを受信してTV受像機123 にメニュー画面を表示する。

【0012】視聴者がこのメニュー画面を見て、リモコ ン122により番組の選択操作を行なうと、VODアダ プタ121はこれを判別して番組要求信号を上り回線に 送出する。この信号を受けた番組送出装置112は、該 当する番組データを番組格納装置111から読出し、チ ャンネルを指定して下り回線に送出する。VODアダプ タ121は指定されたチャンネルの番組データを受信 し、TV受像機123によりその番組を再生する。これ によって、視聴者は選択した番組を視聴することができ る。

【0013】ところで、上記VODシステムは、加入者 へのサービス機能の一つとしてポーズ機能を備えてい る。ポーズ機能とは、例えば視聴者がリモコン122の ポーズボタンを押下したとき、VODアダプタ121に ポーズ信号を送信させ、番組送出装置112にその時点 の番組データを1フレーム分繰り返し送出させること で、TV受像機123に静止画を表示させる機能であ る。このポーズ機能を利用することで、例えば番組視聴 中に電話機に対する着信が発生して通話を行なう場合 に、この通話中に番組の放送を一時中断させることが可 能となり、これにより番組のシーンを見逃す心配がなく なる。

[0014]

【発明が解決しようとする課題】ところが、このような ポーズ機能を備えた従来のビデオオンデマンドシステム には、次のような改善すべき課題があった。すなわち、 加入者がポーズ機能を使用して番組の放送を一時中断さ せた場合、この中断期間では先に述べたように回線は接 続されたままの状態を保持する。このため、加入者の都 合で放送が一時中断されているにも拘らず、センタ側は 上記ポーズによる放送中断期間中の回線使用料を負担し なければならないことになり、これにより不利益を被 る。

【0015】本発明は上記事情に着目してなされたもの で、その目的とするところは、加入者側のポーズ操作に 応じて番組の提供を一時中断した場合には、その間の回 50 4

線使用料を加入者側に負担させることができるように し、これによりセンタ側が被る不利益の低減を図ったビ デオオンデマンドシステムおよびそのセンタ側装置を提 供することにある。

[0016]

【課題を解決するための手段】上記目的を達成するため に本発明は、必要時にセンタ側装置と加入者側装置とを 回線を介して接続し、加入者側装置からセンタ側装置に 対して放送番組のリクエストを行なうことで、センタ側

10 装置から加入者側装置へ上記リクエストに対応する放送 番組を提供するビデオオンデマンドシステムにおいて、 上記加入者側装置にポーズ信号送出手段を備え、この手 段により上記放送番組の提供中にこの番組の提供の一時 中断およびその解除を指示するためのポーズ信号を上記 回線を介してセンタ側装置へ送出するようにし、かつ上 記センタ側装置にはポーズ制御手段と課金手段とを備 え、ポーズ制御手段において上記加入者側装置からのポ ーズ信号を受信して、このポーズ信号の指示に応じて上 記回線の接続を保持したまま放送番組の提供を一時中断 するようにし、さらにこのポーズ制御手段による放送番

組の提供中断期間中に、上記課金手段により上記接続保 持中の回線に対する課金処理を行なうようにしたもので ある。

【0017】また本発明は、上記課金手段として、上記 放送番組の提供中断期間をタイマにより計時し、このタ イマによる計時時間を基に課金処理を行なうことや、加 入者側装置から放送番組中断期間の計時時間情報を受信 し、この計時時間情報を基に課金処理を行なうことをそ れぞれ特徴としている。

【0018】さらに本発明は、必要時にセンタ側装置と 30 加入者側装置とを回線を介して接続し、加入者側装置か らセンタ側装置に対して放送番組のリクエストを行なう ことで、センタ側装置から加入者側装置へ上記リクエス トに対応する放送番組を提供するとともに、この放送番 組の提供中にこの番組の提供の一時中断およびその解除 を指示するポーズ信号を加入者側装置からセンタ側装置 へ送出することで、上記放送番組の提供を一時中断する 機能を備えたビデオオンデマンドシステムで使用される 上記センタ側装置において、課金手段を備え、この課金 40 手段において、上記放送番組の提供中断期間中に、接続

保持中の回線に対する課金処理を行なうようにしたもの である。

[0019]【作用】この結果、本発明のビデオオンデマンドシステ ムおよびそのセンタ側装置によれば、加入者側装置から のポーズ要求に応じて放送番組の提供を一時中断する と、この中断期間における回線使用料が課金されること になる。したがって、加入者の都合により番組の提供を 中断している期間の回線使用料を、番組の聴取料に加え て加入者に請求することが可能となり、これによりセン

夕側の負担を軽減することが可能となる。

[0020]

【実施例】以下、図1および図2を参照してこの発明に 係る実施例を詳細に説明する。図1は、本発明の一実施 例に係わるVODシステムの構成を示すものである。な お、図1において前記図3と同一部分には同一符号を付 して示し、ここでは異なる部分について説明する。

【0021】先ず加入者側装置12には、静止画表示用 の画像メモリを有する静止画再生装置124が設けられ る。また、リモコン122にはポーズのための操作ボタ ン(図示せず)が組み込まれる。VODアダプタ121 には、リモコン122からのポーズ操作を判別し、ポー ズ開始/解除のためのボーズ信号を上り回線に送出する 機能、静止画再生装置124にポーズがかかったときの 静止画面を表示させる機能が組み込まれる。

【0022】なおここでは、リモコン122に対するポ ーズ操作としては、ポーズ開始時にはポーズボタンを押 下し、ポーズ解除時には再生ボタンを押下するものとし て説明する。

【0023】一方、センタ側装置110に用いられる番 20 組送出装置112は、番組データ読出し出力装置114 と、状態保存メモリ115と、ポーズ制御装置116 と、課金タイマ117とを備えている。

【0024】番組データ読出し出力装置114は、加入 者側から要求のあった番組データを番組格納装置111 から読出し、この番組データに要求元の加入者アドレス を付加して送出する機能を有する。状態保存メモリ11 5は、ポーズ制御装置116においてポーズ開始指示が 検出された時点で番組データ読出し出力装置114から 出力されている番組データ位置を記憶しておくものであ る。

【0025】ボーズ制御装置116は、加入者側装置1 2から送られてくるボーズ信号からボーズ開始指示およ びボーズ解除指示を検出する。そして、ボーズ開始指示 検出時には、状態保存メモリ115に番組データの位置 を記憶させる。ポーズ解除検出時には、状態保存メモリ 115に記憶されている番組データの位置から番組送出 を再開させる。

【0026】課金タイマ117は、上記ポーズ制御装置 116でポーズ開始指示が検出された時点でポーズ期間 の計時を開始してその計時時間に対応する回線使用料を 課金し、また上記ポーズ制御装置116でポーズ終了指 示が検出された時点で、上記ポーズ時間の計時を終了し て課金動作を終了する。この課金タイマ117による課 金データはその都度もしくは1通信ごとに図示しない管 理・制御装置に転送され、この管理・制御装置において 加入者に対する請求処理が行なわれる。

【0027】次に、以上のように構成されたシステムの 動作を説明する。番組再生中において、加入者側装置1 2では、VODアダプタ121によりポーズボタンの押 50 6

下操作が監視されている。この状態でボーズボタンの押 下を検出すると、VODアダプタ121はボーズ開始指 示を上り回線へ送出すると共に、静止画再生装置124 にボーズ開始時の画面を画像メモリに記憶させ、静止画 としてTV受像機123に表示させる。

【0028】続いて、再生ボタンの押下操作を検出する と、VODアダプタ121はポーズ解除指示を上り回線 へ送出すると共に、静止画再生装置124に静止画再生 状態を解除させ、中断していた番組表示を再開させる。

10 【0029】これに対しセンタ側装置110では、番組送出中にボーズ制御装置116においてボーズ開始指示の到来監視が行なわれている。この状態で、加入者側装置12からボーズ開始指示が送られてくると、ボーズ制御装置116がこれを検出して、その時点における出力中の番組位置(例えば番組ファイル上の位置、タイムコード等)を状態保持メモリ115に記憶させ、かつ番組データ読出し出力装置114による番組読出し出力動作を停止させる。

【0030】ところで、上記番組送出中に、課金タイマ

117では課金タイマ監視動作が行なわれる。図2は、 その動作手順および動作内容を示すフローチャートであ る。すなわち、ポーズ制御装置116でポーズ開始指示 が検出されてその旨が通知されると、課金タイマ117 はステップ2aでこの通知を検出してステップ2bに移 行し、このステップ2bにおいて一時停止時間の計時を 開始してこの計時時間に応じた課金処理を行なう。そし て、この課金処理を行ないながらステップ2cにおいて 一時停止の終了監視を行なう。

【0031】この状態で加入者側装置12からポーズ解 30 除指示が送られてくると、ボーズ制御装置116が番組 読出し出力装置114に状態保持メモリ115の記憶位 置から番組送出を再開させる。またそれと共にボーズ制 御装置116は、ポーズ解除指示の検出通知を課金タイ マ117に通知する。そうすると課金タイマ117は、 ステップ2cでこの通知を検出して一時停止が終了した と判断し、ステップ2dに移行してここで一時停止時間 の計時を停止して課金処理を終了する。なお、その課金 データは、請求業務処理のために図示しない管理・制御 装置に転送される。

40 【0032】すなわち、本実施例のシステムでは、加入 者によるボーズ操作があったとき、センタ側装置110 においてポーズ期間中に番組の送出が一時停止されると 共に、この一時停止期間に課金タイマ117により接続 保持中の回線に対する課金処理が行なわれる。このた め、ポーズ期間中の回線使用料を後に番組提供料と共に 加入者に請求することが可能となり、これによりセンタ 側の不合理な負担は軽減される。

【0033】なお、本発明は上記実施例に限定されるも のではない。例えば、上記実施例ではポーズ期間の計時 をセンタ側装置110の課金タイマ117にて行なっ

た。しかし、ポーズ期間の計時を加入者側装置12にお いて行ない、その計時データを通信終了時などにおいて センタ側装置110に転送して、センタ側装置110が この計時データを基に課金処理を行うようにしてもよ 12.

【0034】また、前記実施例では各番組送出装置13 Oごとに課金タイマを設けてポーズ期間中の課金処理を 行なうようにしたが、各番組送出装置に対し1個もしく は番組送出装置の設置数よりも少ない数の課金タイマを 置におけるポーズ期間の課金処理を統括して行なうよう にしてもよい。

【0035】このように構成すると、課金タイマの設置 数を減らすことができる。なお、このようにした場合、 課金タイマの設置数よりも多い番組送出装置において同 時にポーズ処理が行なわれると課金処理を行なえない回 線が発生することになるが、多くの回線で同時にポーズ 状態が発生する確率は極めて低いので、実際の運用上で は支障ないと考えられる。

【0036】また、前記実施例ではポーズ期間中の全期 間を課金対象時間とした場合について述べたが、ポーズ 期間の一部をサービス期間とし、ポーズ期間が一定時間 を超えた場合にその超えた時間に対してのみ課金を行な うようにしてもよい。

【0037】さらに、ポーズ期間中にセンタ側装置から 加入者側装置へ課金中である旨のメッセージ情報を転送 し、このメッセージ情報を静止画像に重畳させてTV受 像機に表示させるようにしてもよい。また、上記メッセ ージ情報は加入者側装置において発生してTV受像機に 表示するようにしてもよい。

【0038】また前記実施例では、センタ側装置110 の機能負担を軽減するために、ポーズ期間中には加入者 側装置12において静止画像を生成してTV受像機12 3に表示させるようにしたが、センタ側装置から静止画 像データを加入者側装置に伝送して表示させるように構 成してもよい。このようにすると、加入者側装置を安価 にできる。またその際、センタ側装置から伝送する静止 画像データを課金中である旨のメッセージ情報を含んだ ものにするとよい。

【0039】さらに、前記実施例では、リモコン122 で操作を行うものとして説明したが、この操作は本体ス イッチでもよいことは勿論である。その他、センタ側装 置および加入者側装置の構成や、課金手段における課金

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処理の手順および内容、回線の種類やその構成等につい ても、本発明の要旨を逸脱しない範囲で種々変形して実 施できる。

[0040]

【発明の効果】以上詳述したように本発明では、加入者 側装置にポーズ信号送出手段を備え、この手段により上 記放送番組の提供中にこの番組の提供の一時中断および その解除を指示するためのポーズ信号を上記回線を介し てセンタ側装置へ送出するようにし、かつ上記センタ側

設け、この少数の課金タイマにおいて上記各番組送出装 10 装置にはポーズ制御手段と課金手段とを備え、ポーズ制 御手段において上記加入者側装置からのポーズ信号を受 信して、このポーズ信号の指示に応じて上記回線の接続 を保持したまま放送番組の提供を一時中断するととも に、このポーズ制御手段による放送番組の提供中断期間 中に、上記課金手段により上記接続保持中の回線に対す る課金処理を行なうようにしている。

> 【0041】したがって本発明によれば、加入者側のポ ーズ操作に応じて番組の提供を一時中断した場合には、 その間の回線使用料を加入者側に負担させることができ

20 るようになり、これによりセンタ側が被る不利益の低減 を図ることができるビデオオンデマンドシステムおよび そのセンタ側装置を提供することができる。

【図面の簡単な説明】

【図1】本発明の一実施例に係るビデオオンデマンドシ ステムの構成を示すブロック図。

【図2】図1に示したシステムにおける課金処理動作を 説明するためのフローチャート。

【図3】従来のビデオオンデマンドシステムの構成を示 すブロック図。

- 【符号の説明】 30
 - 110…センタ側装置
 - 111.番組格納装置
 - 113…番組送出装置
 - 114…番組データ読出し出力装置
 - 115…状態保存メモリ
 - 116…ポーズ制御装置
 - 117…課金タイマ
 - 12…加入者側装置
 - 121…VODアダプタ
- 40 122…リモートコントローラ(リモコン)
 - 123…TV受像機
 - 124…静止画再生装置
 - 13…回線制御装置

【図1】



【図2】





篭槬槣桞뾊矄

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EAST Search History

EAST Search History (Prior Art)

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12 286	(S10 S11) and television and (((video near2 demand\$3) content) near2 server) and (videophone (video near (telephone phone)))	US PAPUB USPAT; USOCR; FFRS;	OR	ON	2014/12/1 16:16
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19 17	S17 and paus\$3	US PGPUB USPAT; USOCR; FFRS; EPO; JPO; DERWENT;	OR	ON	2014/12/ 16:33
20 15	S18 and paus\$3	iem tob US PAPUB USPAT; USOCT PPRS; EPC, JPO; DERWENT;		ON	2014/12/ 16:33
22 1	20130127977".pn. and processor and network	IBM TDB IBM TDB USPAT: USOAT: USOAT: EPO; JPO; EPO; JPO;	<u> </u>	ON	2014/12 12:51
		DERWENT BBM_TDB	<u>]</u>		
23 4	WO0203683	US PAPUB USPAT; USOOR; FFRS; EFO; JFO; DERWENT;	ЮН	ON	2014/12/ 18:23
27 1	(video on-demand) and center and (paus\$3 near2 controller) and (charg\$3 near2 time\$3)	BM TDB US-PGPUB USPAT; USOOR (FFRS) EPO, JPO; EPO, JPO;		ON	2014/12 12:53
28 3	"20030041333".pn.	DERWENT; IBM TOB US-PGPUB USPAT;	<u>]</u>	ON	2014/12
		IPR2020-0020	0	aecaecae	13:12
." 1018 11:41:11 A	Annie Ir	nc. EX1002 Page 8			~

			epo; JPO; Derwent; BM TDB			
29	113050		JSPAT; JSOCR; PRS; PO; JPO; DERWENT;	OR	ON	2014/12/ 22:28
30	35152	3148/14.01, 14.02, 14.03, 14.04, 14.05, 14.06, 14.07, 14.08, 14.09, 14.1, 14.11, 14.12, 14.13, 14.15, 15, 14.16, 379/265.03, 455/414.1, 566, 704/270, cds.	BM_TDB JS-PGPUB; JSPAT; JSOCR; PRS; PRS; JERWENT; BM TDB	OR	ON	2014/12/ 22:28
31	275	S29 S30) and (camera with (stop\$4 halt\$3) with (device apparatus endpoint videophone)) U B B B B B B B B B B B B B B B B B B	BM TDB JS-PGPUB; JSPAT; JSOCR; PRS; PO; JPO; DERWENT; BM_TDB	OR	ON	2014/12/ 22:30
32	15		JS-PGPUB; JSPAT; JSOCR; PRS; PO; JPO; DERWENT; BM_TDB	OR	ON	2014/12/ 22:30
33	8		JS-PGPUB; JSPAT; JSOCR; PRS; PO; JPO; DERWENT; BM_TDB	OR	ON	2014/12/ 22:31
34	218		JS-PGPUB; JSPAT; JSOCR; PRS; PO; JPO; DERWENT; BM_TDB	OR	ON	2014/12/ 22:32
85	125		JS-PGPUB; JSPAT; JSOCR; PRS; PO; JPO; DERWENT; BM TDB	OR	ON	2014/12/ 22:32
36	117		JS-PGPUB; JSPAT; JSOCR; PRS; PO; JPO; DERWENT; BM TDB	OR	ON	2014/12/ 22:33
37	23	"2007070188" "8013936" "2014009559" "2014009558" "2014015916").pn. U F F S S S S S S S S S S S S S	JS-PGPUB; JSPAT; JSOCR; PRS; PO; JPO; DERWENT; BM TDB	OR	ON	2015/04/ 10:59
38	15		JS-PGPUB; JSPAT; JSOCR; PRS; PO; JPO; DERWENT; BM TDB	OR	ON	2015/04/ 11:01
40	0	S38 and ((stop\$4 halt\$3) with camera) U F F B B B B B B B B B B B B B B B B B	JS-PGPUB; JSPAT; JSOCR; TPRS; TPC; JPO; DERWENT; BM_TDB	OR	ON	2015/04/ 11:07
41	117520		JSPAT; JSOCR; TPRS; TPO; JPO; DERWENT; BM_TDB		ON	2015/04/ 11:08
42	37197	348/14.01,14.02,14.03,14.04,14.05,14.06,14.07,14.08,14.09,14.1,14.11,14.12,14.13,14.14,15.15,14.16;379/285.03;455/414.1,566;704/270.cds.	JS-PGPUB; JSPAT;		ON	2015/04/ 11:08

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
43	137		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2015/04/2 11:10
44	91	S43 and @ad<="20060925"	IBM_TDB US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DEFWENT;	OR	ON	2015/04/2 11:10
45	7	S44 and ((stop\$4 halt\$3) with (instruction command\$3) with camera with (remote\$3 farend (far near end)))	US-PGPUB; USPAT; USPAT;	OR	ON	2015/04/2 11:13
			FPRS; EPO; JPO; DERWENT; IBM_TDB			
46	37		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2015/04/2 12:49
47	23		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2015/04/2 12:50
60	2	14/811048	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2016/10/2 13:41
61	6		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2016/10/ 13:43
52	0		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2016/10/2 13:45
33	81352	(H04N21/254,42203,423,431,4768;H04N7/141,142,147,148,17318).OPC	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2016/10/ 13:49
64	143723	G01S5/0072;H04M1/72572;H04M2201/40;H04M2250/52;H04M8/4936;5191;H04N2007/145;H04N21/254;42203;423;431;4788;H04N5/272;H04N7/14;141;142;144;147;148;15;152;155;157;17318;H04W4/18;185;OPC	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2016/10/2 13:50
55	40696	348/14.01, 14.02, 14.03, 14.04, 14.06, 14.07, 14.08, 14.09, 14.1, 14.11, 14.12, 14.13, 14.15, 15, 14.16, 379/265.03, 455/414.1, 566, 704/270.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2016/10/ 13:50
66	33	"20010041053" "20020019984" "20030041333" "20030206720" "20040128700" "20060041926" "20060212920" "20070070186" "20070094691" "20070139514" "20070216760" "2007023839"	US-PGPUB; USPAT	OR	ON	2016/ 10/2 13:50
57	14		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT:		ON	2016/10/2 10:32
	1:41:11 AN	IPR2020-0 Apple Inc. EX1002 Pag			and a	-

			IBM_TDB	Victoria	<u></u>]	<u></u>	
8	4	"5778053".pn.	US-PGPUB; USPAT;	OR	01	V 201	16/10/3 •33
			USOCR;		acces.		
unununu			FPRS; EPO; JPO;	3	aceo.		
un manuel			DERWENT;		20000		
			BM TDB				16/10/:
9	2	(S87 S88) and (encod\$3 decod\$3 codec) and display\$3	US-PGPUB; USPAT;	UH	JOP	v (201 10:1	
			USOCR; FPRS;		accec		
an a			EPO; JPO;	3	20002		
			DERWENT; IBM TDB	2	20202		
0	81404		US-PGPUB;	OR		1 201	16/10/:
			USPAT; USOCR;	2000	accec	10:1	:04
			FPRS		acac		
- and the second se			epo; JPO; Derwent;		00000		
<u></u>]			IBM_TDB	<u> </u>	<u></u>	<u> </u>	
1 700	143837	(20155/0072;H04M1/72572;H04M2201/40;H04M2250/52;H04M8/4936;5191;H04M2007/145;H04M21/254;42203;4223;431;4788;H04M5/272;H04M7/14;141;142;144;147;148;15;152;155;157;17318;H04W4/18;185.CPC	US-PGPUB; USPAT;	OR	jon	V 201	16/10/ •M
00000			USOCR	3	20000		.07
			FPRS; EPO; JPO;				
			DERWENT;				
2	20		IBM_TDB		101 101	1001	16/10/
4 5		20080134278" "20080172693" "20080212949" "20090013373" "20090073253" "20090079813" "20090174762" "20090251526" "20130033561" "552826037" "5528265" "5518653" "5610653" "562826144"	USPAT	i Un	100	10:1	
		"6339842" "5529742" "5593031" "8013938" "8326355" "8365067" "9124756").PN		<u> </u>]	<u></u>	
3	87		US-PGPUB; USPAT;	IOR	01	V 201	16/10/ :04
			USOCR		aaaa		
in the second			FPRS; EPO; JPO;		aaaaa		
			DERWENT; IBM TDB	3	orana a		
4	22	573 and @ad<="20060925"	US-PGPUB	OB		J 201	16/10/
- annara			USPAT;			10:1	
			USOCR; FPRS;		20200		
-			FPRS; EPO; JPO;	2000	0000		
			DERWENT; IBM_TDB		acce.		
5	21	S74 and (video near2 (phone telephone terminal device))	US-PGPUB;	OR	joi		16/10/
unununu			USPAT; USOCR	3	10000	310:I	:07
Constants			FPRS;	8	10000		
			epo; JPO; Derwent;				
			IBM_TDB	<u> </u>			
6	2		US-PGPUB; USPAT;	OR	101	V 201 10:1	16/10/ ·08
- manuar			USOCR;		00000		
			FPRS; EPO; JPO;	3	00000		
ananan a			DERWENT;		20202		
7	32	(video near2 (phone telephone terminal)) and (video with camera with predeterm\$4 with (period time) with stop\$4)	IBM_TDB US-PGPUB;		 JON		16/10/
internet	UL .		USPAT;	VII	000	10:	
- Constant			USOCR; FPRS;		acces		
			EPO; JPO;		recer		
And and a second			DERWENT; IBM_TDB		00000		
8	11	S77 and @ad<="20080925"	US PGPUB	OR	JON		16/10/
and a second			USPAT; USOCR;		reerer	10:	:11
and a second second			FPRS;	0000	neere		
			epo; Jpo; Derwent;	1000	aaaaa		
			BM_TDB	<u>]</u>		<u></u>	
	6	(videophone video-phone video-telephone) and (video with camera with predeterm\$4 with (period time) with stop\$4)	US-PGPUB; USPAT;	OR	ON	V 201 10:	16/10 17
Tura ara			USOCR;		acce.		
Tarata a			FPRS; EPO; JPO;		מבכבה		
a na na na na			DERWENT;	00000	aaaaa		
)	7	(videophone video-phone video-telephone) and (camera with predeterm\$4 with (period time) with stop\$4)	US-PGPUB		<u>l</u> Joi	1001	16/10
	,		USPAT;	Un	- - 	v 1201 10:1	
			USOCR; FPRS;		acaca	-	
Tar a tar a tar			epo; JPO; Derwent;		recer		
				17	3	1	
			(Derwent) BM TDB	3	0000	200	
	1		IBM_TDB	<u>]</u>	0	1 201	16/10

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
82		20100073455 \$ or US 20070261091 \$ or US 20080309759 \$ or US 20050250531 \$). did. or (US 8383087 \$ or US 8084918 \$ or US 564918 \$ or US 9432618 \$ or US 9124758 \$ or US 5710591 \$ or US 5467388 \$ or US 5771065 \$ or US 6859526 \$ or US 5778053 \$). did. or (UP 0828280 \$). did. or (US 20100073455 \$ or US 20070070188 \$). did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2016/10/29 11:15
33			US-PGPUB; USPAT	OR	ON	2016/10/29 11:15
34	15	582 not 583	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/10/29 11:15
19	1		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/12/16 14:41
90	13		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2017/12/16 18:39
91	3		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DEFWENT; IBM_TDB		ON	2017/12/16 18:40
92	5		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2017/12/16 18:48
93	0	592 and (echo\$3 and cancel\$6).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2017/12/16 18:51
94	166630		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2017/12/16 18:53
95	42924	348/14.01,14.02,14.03,14.04,14.05,14.06,14.07,14.08,14.09,14.1,14.11,14.12,14.13,14.14,15.15,14.16,379/265.03,455/414.1,566;704/270.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2017/12/16 18:53
96	35584	(S94 S95) and (television and (video\$5 telephone phone))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2017/12/16 19:07
97	17858	\$96 and @ad<="20080925"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2017/12/16 19:08
98	295	S87 and (echo\$3 with cancel\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB		ON	2017/12/16 19:09
:	265 1:41:11 AM	(SS8 and (television same (video\$5 telephone phone))	020		JON	2017/12/16

			USPAT; USOCR; FPRS; EPO; JPO;			19:10
			derwent; IBM TDB			
100	29102		US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2017/12/ 19:11
			epo; JPO; Derwent;			
	454	S100 and (echo\$3 with cancel\$6)	IBM_TDB US-PGPUB;	OB	ION	2017/12/
			USPAT; USOCR;		100	19:11
			FPRS; EPO; JPO;		100000	
			derwent; IBM_tdb			
102	265		US-PGPUB; USPAT;	OR	ON	2017/12 19:12
			USOCR; FPRS;		and a state of the	
			epo; Jpo; Derwent;			
103	15	SIO2 and ((television near receiver) same (video\$5 telephone phone))	IBM_TDB US-PGPUB;	OR	JON	2017/12/
			USPAT; USOCR;		acaca	19:13
			FPRS; EPO; JPO;		ana ana	
			DERWENT; IBM_TDB		bereare	
104	213		US-PGPUB; USPAT;	OR	ON	2017/12 19:19
			USOCR; FPRS;		ana ana	
			epo; JPo; Derwent;			
105	166630	C0155/0072:H04M1/72572:H04M2201/40:H04M2250152:H04M0/4936.5191;H04N2007/145;H04N21/254,42203.4223.431,4788;H04N5/272:H04N7/14,141,142,144,147,148,15,152,155,157,17318;H04W4/18,185.CPC	IBM_TDB US-PGPUB;	OR	JON	2017/12
			USPAT; USOCR;			21:31
			FPRS; EPO; JPO;			
			DERWENT; IBM_TDB		Parata	
106	42924		US-PGPUB; USPAT;	OR	ON	2017/12 21:31
			USOCR; FPRS;			
			epo; JPo; Derwent;		accord	
107	29102	(S105 S106) and (television same (video\$5 telephone phone))	IBM_TDB US-PGPUB;	OR	JON	2017/12
			USPAT; USOCR;			21:31
			FPRS; EPO; JPO;		ananan	
			DERWENT; IBM_TDB			
108	454		US-PGPUB; USPAT;	OR	ON	2017/12 21:31
			USOCR; FPRS;		ananan	
			epo; Jpo; Derwent;			
109	265	S108 and @ad<="20080925"	IBM_TDB US-PGPUB;	OR	ION	2017/12
and a second second			USPAT; USOCR;			21:31
			FPRS; EPO; JPO;		and a second	*****
			DERWENT; IBM_TDB		accesso	
110	213		US-PGPUB; USPAT;	OR	ON	2017/12 21:31
			USOCR; FPRS;		202222	
			epo; JPO; Derwent;		and a designed	
	67		IBM_TDB US-PGPUB;	OR .	ION	2017/12
nananan. T	91		USPAT; USPAT; USOCR;		UN CONTRACTOR	2017/12
			EPO; JPO;			
-			DERWENT; IBM_TDB			

S1 12 4	Section 2010/2010/2010/2010/2010/2010/2010/2010	USPAT	OR	ON 2017/12/ 12:35
5113 8	St12 and ((echoS3 with cancelS6) same microphone same (speaker loudspeaker))	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	DR	ON 2017/12/ 12:35
5114 2	(S113 and @ad<="20080825"	US-PGPUB; (USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	DR	ON 2017/12/ 12:36
S115 4	20010041053" "20120019984" "20030041333" "20030206720" "20040128700" "20050250531" "20060041926" "20060212920" "20070070168" "200700394691" "20070139514" "20070216760" "20070238359" "20070238359" "20070238359" "20070238359" "2007023859" "2007023859" "2003001373" "2008017462" "2003017462" "2003017462" "2003017462" "2003017462" "2003017462" "2003017462" "2003017462" "2003017462" "2003017462" "2003017462" "2003017462" "2003017462" "2003017462" "2013012777" "20150334352" "547385" "5526037" "5528285" "5610653" "5684918" "5710591" "5771065" "5778053" "6339842" "6529742" "6859526" "7593031" "801 "302455" "8013012777" "20150334352" "30120373" "2023017463" "5610653" "5610653" "5610653" "5710591" "5771065" "5778053" "6339842" "6529742" "6859526" "7593031" "801 "302455" "8013012777" "2015033452" "30120217458" "30130217458" "30130217458" "30130217458" "3014074583" "301407458" "3014074583" "30	US-PGPUB CUSPAT	DR	ON 2018/01/ 12:27
S116 1	17926 C0155/0072;H04M1/72572;H04M2201/40;H04M2250/52;H04M3/4936;5191;H04M2007/145;H04M21/254;42203;4223;431,4788;H04N5/272;H04N7/14,141,142,144;147,148;15;152,155;157;17318;H04W4/18;18	5.CPC. US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DEFWENT; IBM TDB	DR	ON 2018/01/ 14:13
S117 4	333 348/14.01,14.02,14.03,14.04,14.05,14.06,14.07,14.08,14.09,14.1,14.12,14.13,14.14,15.15,14.16;379/265.03;455/414.1,566;704/270.cds.	US PGPUB; C USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	DR	ON 2018/01/ 14:13
S118 (2)	(US-20070070188-§ or US-20090174762-§ or US-20090251526-§ or US-20070094691-§ or US-2010041053-§ or US-20040128700-§ or US-20130127977-§ or US-20090041333-§ or US-20150334362-§ or US- 20100073455-§ or US-20070261091-§ or US-20080309759-§ or US-20050250531-§), did. or (US-8363087-§ or US-2013038-§ or US-2014918-§ or US-9432618-§ or US-9124758-§ or US-5710591-§ or US-546738 US-5771065-§ or US-6859526-§ or US-5778053-§), did. or (JP-08289280-§), did. or (US-20100073455-§ or US-20070070188-§), did.	US-PGPUB; 18-\$ or USPAT; UPO; DERWENT		ON 2018/01/ 14:14
5119 4	5 (*20010041653* *2020019964* *20030041333* *20030206720* *20040128700* *20050250531* *20060041926* *20060212920* *20070070188* *20070034691* *20070139514* *20070216760* *20070238339* *20070261091* *20080134278* *20080172693* *20080212949* *20080309759* *20090013373* *20090073253* *20090073513* *20090174762* *20090174762* *20090251526* *20100073455* *201300033661* *20130127977* *20150334352* *5467388* *5528035* *5610653* *5684918* *5710591* *5771065* *5778053* *6339642* *6529742* *6659626* *7599031* *801 ************************************	USPAT 13938"		ON 2018/01 14:15
5120 2:	000 (S116 S117 S118 S119) and ((TV television settop (set near top)) same (videophone (video near (phone telephone)) telephone phone))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	DR	ON 2018/01/ 14:18
S121 1	W12 S120 and ((TV television settop (set near top)) with (videophone (video near (phone telephone)) telephone phone))	US-PGPUB; (USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	DR	ON 2018/01/ 14:19
5122 11	3097 S120 and ((television settop (set near top)) with (videophone (video near (phone telephone)) telephone phone))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM TDB	DR	ON 2018/01. 14:19
S123 1	8120 and ((television settop (set near top)) with (videophone (video near (phone telephone))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	DR	ON 2018/01, 14:20
S124 9	S123 and (echo\$3 with (cancel\$3 cancellation cancelation))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	DR .	ON 2018/01. 14:24
5125 5) S124 and @ad<="20080825"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	DR.	ON 2018/01/ 14:24
3126 4	15014 #((TV television settop (set near top)) same (videophone (video near (phone telephone)) telephone phone))	US-PGPUB; USPAT; USOCR;		ON 2018/01/ 14:24
200	IPR2020			1

			EPO; JPO; DERWENT IBM_TDB	200000000000000000000000000000000000000	
S127	23270	S126 and ((TV television settop (set near top)) with (videophone (video near (phone telephone))))	US-PGPUE USPAT; USOCR; FPRS; EPO; JPO; DERWENT IBM_TDB	ON	2018/01/31 14:25
S128	206	S127 and (echo\$3 with (cancel\$3 cancellation cancelation))	US-PGPUE USPAT; USOCR; FPRS; EPO; JPO; DERWENT IBM_TDB	ON	2018/01/31 14:26
S129	131	S128 and @ed<="20080625"	US-PGPUE USPAT; USOCR; FPRS; EPO; JPO; DERWENT IBM_TDB	ON	2018/01/31 14:26
S130	131	(S125 S129)	US-PGPUE USPAT; USOCR; FPRS; EPO; JPO; DERWENT IBM_TDB	 ON	2018/01/31 14:26
\$132	2	S130 and (stop\$3 near4 camera)	US-PGPUE USPAT; USOCR; FPRS; EPO; JPO; DERWENT IBM_TDB	ON	2018/01/31 14:28
5133	2	S130 and (paus\$3 with display\$3)	US-PGPUE USPAT; USOCR; FPRS; EPO; JPO; DEFWENT IBM_TDB	 ON	2018/01/31 14:34
S134	6	9723268" pn.	US-PGPUE USPAT; USOCR; EPO; JPO; DERWENT IBM_TDB	ON	2018/02/01 10:26

2/1/2018 11:41:08 AM C:\Users\knguyen23\Documents\EAST\Workspaces\15_837402_15_631298_CON_15_215839_CON_14_811048_CON_12_457257_CON_13_723312_01_30_2018.wsp

Bibliographic Data

Application No: 15857402						
Foreign Priority claimed:	• Yes	ONo				
35 USC 119 (a-d) conditions met:	Ves Yes	No		Met After Allowance		
Verified and Acknowledged:	/Khai N. N	guyen/				
	Examiner's	Signature		Initials		
Title:	TELEVISION RECEIVER WITH A TV PHONE FUNCTION					

 FILING or 371(c) DATE
 CLASS
 GROUP ART UNIT
 ATTORNEY DOCKET NO.

 12/11/2017
 348
 2652
 ASA-9567-06

 RULE

APPLICANTS

Maxell, Ltd., Kyoto, JAPAN

INVENTORS

Kazunori IWABUCHI, Yokohama, JAPAN

Hiroki MIZOSOE, Kawasaki, JAPAN

Mutsumi SHIMODA, Kawasaki, JAPAN

Setiawan BONDAN, Yamato, JAPAN

Manabu SASAMOTO, Yokohama, JAPAN

CONTINUING DATA

This application is a CON of 15631298 06/23/2017

15631298 is a CON of 15215839 07/21/2016 PAT 9723268

15215839 is a CON of 14811048 07/28/2015 PAT 9432618

14811048 is a CON of 13723312 12/21/2012 PAT 9124758

13723312 is a CON of 12457257 06/04/2009 PAT 8363087

FOREIGN APPLICATIONS

JAPAN 2008-246232 09/25/2008

IF REQUIRED, FOREIGN LICENSE GRANTED**

01/11/2018

STATE OR COUNTRY

JAPAN

ADDRESS

MATTINGLY & MALUR, PC 1800 DIAGONAL ROAD SUITE 210 ALEXANDRIA, VA 22314

UNITED STATES

FILING FEE RECEIVED

\$6,160

Receipt date: 12/11/2017

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

15/837,402 - GAU: 2652

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE Application Number 15/837,402 - GAU: 2652 Filing Date 2017-12-11 First Named Inventor WABUCHI, K. Art Unit Examiner Name Examiner Name /Khai N. Nguyen/ Attorney Docket Number ASA-9567-06

				U.S.	PATENTS	Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8013938		2011-09-06	Shyu	
	2	5526037	B2	1996-06-11	Cortjens, et al.	
	3	6339842		2002-01-15	Fernandez, et al.	
	4	7593031		2009-09-22	Root, et al.	
	5	6529742		2003-03-04	Yang, Jae-Duk	
	6	8326355	B1	2012-12-04	Fujisaki, Iwao	
	7	8676273	B1	2014-03-18	Fujisaki, Iwao	
	8	5684918	A	1997-11-04	Abecassis, Max	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /KNN/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number		
Filing Date		2017-12-11
First Named Inventor IWAB		UCHI, K.
Art Unit		
Examiner Name		
Attorney Docket Number		ASA-9567-06

9		5528285	A	1996-06-18	Morikawa; Shigenori		
1(0	5610653	A	1997-03-11	Abecassis; Max		
1'	1	5684918	A	1997-11-04	Abecassis; Max		
1:	2	8363087	B2	2013-01-29	lwabuchi; Kazunori		
1:	3	9124758	B2	2015-09-01	lwabuchi; Kazunori		
14	4	5467388	A	1995-11-14	Redd, Jr.; James C.		
15	5	5710591	A	1998-01-20	Bruno; Richard F.		
10	6	5771065	A	1998-06-23	Hijikata; Toshiyuki		
17	7	5778053	A	1998-07-07	Skarbo; Rune A.		
18	8	6859526	B2	2005-02-22	Macklin; Lee Edward		
15	9	9432618		2016-08-30	wabuchi; Kazunori		
EFS Web 2.1.17	EFS Web 2.1.17 ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /KNN/ IPR2020-00200						

Apple Inc. EX1002 Page 98

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number			
Filing Date		2017-12-11	
First Named Inventor IWAB		UCHI, K.	
Art Unit			
Examiner Name			
Attorney Docket Number	ər	ASA-9567-06	

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	U.S.PATENT APPLICATION PUBLICATIONS Remove							
Examiner Initial*				Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear			
	1	20070216760	A1	2007-09-20	Kondo, et al.			
	2	20090174762		2009-07-09	Takahashi			
	3	20090073253		2009-03-19	Lee			
	4	20090079813		2009-03-26	Hildreth			
	5	20090251526		2009-10-08	Book			
	6	20070139514		2007-06-21	Marley			
	7	20070070188		2007-03-29	SHYU			
	8	20010041053	A1	2001-11-15	Abecassis, Max			
	9	20030041333	A1	2003-02-27	Allen et al.			

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /KNN/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number		
Filing Date		2017-12-11
First Named Inventor IWAB		UCHI, K.
Art Unit		
Examiner Name		
Attorney Docket Number		ASA-9567-06

10	20040128700	A1	2004-07-01	Pan, Ming-Da
11	20070094691	A1	2007-04-26	Gazdzinski, Robert F.
12	20090174762	A1	2009-07-09	Takahashi, Junichi
13	20090251526	A1	2009-10-08	Book, Michael
14	20090013373	A1	2009-01-08	lizuka, Masaki
15	20130033561	A1	2013-02-07	Kwon, et al.
16	20010041053	A1	2001-11-15	Abecassis; Max
17	20020019984	A1	2002-02-14	Rakib, Selim Shlomo
18	20030206720	A1	2003-11-06	Abecassis, Max
19	20060041926	A1	2006-02-23	Istvan; Anthony F.
20	20060212920	A1	2006-09-21	Yamaguchi; Kohei

EFS Web 2.1.17

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number		
Filing Date		2017-12-11
First Named Inventor	IWAB	UCHI, K.
Art Unit		
Examiner Name		
Attorney Docket Number		ASA-9567-06

	21	20070233839	A1	2007-10-04	Gaos; Maria			
	22	20080134278	A1	2008-06-05	Al-Karmi; Ashraf K.			
	23	20080172693	A1	2008-07-17	Ludvig; Edward A.			
	24	20080212949	A1	2008-09-04	Wachtfogel; Reuven			
	25	20050250531	A1	2005-11-10	Takebe, Manabu			
	26	20070261091	A1	2007-11-08	Tachikawa; Hirohide			
	27	20080309759	A1	2008-12-18	Wilson; Brian			
	28	20100073455	A1	2010-03-25	lwabuchi; Kazunori			
	29	20130127977	A1	2013-05-23	lwabuchi; Kazunori			
	30	20150334352	A1	2015-11-19	lwabuchi; Kazunori			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number		
Filing Date		2017-12-11
First Named Inventor IWAB		UCHI, K.
Art Unit		
Examiner Name		
Attorney Docket Number		ASA-9567-06

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code²i	Kind Code4	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T5
	1	2001086475 w/abs	JP	A	2001-03-30	MEGA CHIPS CORP		
	2	2000184346 w/abs	JÞ	A	2000-06-30	TOSHIBA CORP		
	3	05-056190	JP		1993-03-05	Matsushita Electric Ind Co Ltd.		
	4	09-083983	JP		1997-03-28	Matsushita Electric Ind Co Ltd.		
	5	05-236472	JP		1993-09-10	Kosutemo KK		
	6	D7-184174	JP		1995-07-21	Sharp Corp.		
	7	2006-20286	JP		2004-06-02	Kondo et al.		
	8	2003-348510	JP		2003-12-05	Mitsubishi Electric Corp.		
	9	2006-157610	JP		2006-06-15	Toshiba Corp.		
	10	2008-079215	ЪЪ		2008-04-03	Seiko Epson Corp.		

EFS Web 2.1.17

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number		
Filing Date		2017-12-11
First Named Inventor IWAB		UCHI, K.
Art Unit		
Examiner Name		
Attorney Docket Numb	er	ASA-9567-06

	11	08-289280	JP		1996-11-01	Toshiba Corp.		
	12	05-236472	JP	A	1993-09-10	Kosutemu KK		
	13	2007-300594	JP	A	2007-11-15	Amtran Technology Co Ltd.		
If you wis	h to ad	d additional Foreign F	atent Document	citatior	n information pl	ease click the Add butto	n Add	I.
NON-PATENT LITERATURE DOCUMENTS Remove								
Examiner Initials*	Examiner Initials* Cite No linclude 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, pages(s), volume-issue number(s), publisher, city and/or country where published.							
	1	Japanese Office Action received in corresponding Japanese Application No. 2013-230194 dated March 10, 2015						
	2	Japanese Office Action dated August 5, 2014 in corresponding Japanese Application No.: 2013-230194						
	3	Domestic technical journal 2007-00349-006 - Skype realizes handy video call						
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Examiner	Examiner Signature /Khai N. Nguyen/ Date Considered 01/30/2018					018		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								
Standard S ⁻ ⁴ Kind of do	¹ See Kind Codes of USPTO Patent Documents at <u>www.USPTO.GOV</u> or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.							
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						Application/C	Cont	trol N	0.	Applica Reexar	ant(s nina	s)/Pai ition	tent U	Inde	r
	Index of Claims					15837402			IWABUCHI ET AL.						
					f	Examiner				Art Uni	it				
					KHAI N NGUYEN		2652								
✓	R	ejected		-	C	ancelled		Ν	Non-Ele	ected		Α		Арр	eal
=	4	Allowed		÷	R	estricted		Ι	Interfer	ence		0	C)bje	cted
	Claims	renumbered	in the s	ame o	rder a	s presented by ap	oplica	ant		СРА] т.с	D.		R.1.47
	CLA	AIM							DATE						
F	inal	Original	02/01/2	2018											
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		2	✓												
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		12	✓												
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		14	✓ ✓												
		15	✓ ✓												
		16													

Part of Paper No.: 20180130

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Search Notes	15837402	IWABUCHI ET AL.
	Examiner	Art Unit
	KHAI N NGUYEN	2652

CPC- SEARCHED				
Symbol	Date	Examine		
G01S5/0072;H04M1/72572;H04M2201/40;H04M2250/52;H04M3/4936,5191	2/1/201 8	KNN		
H04N2007/145;H04N21/254,42203,4223,431,4788	2/1/201 8	KNN		
H04N5/272;H04N7/14,141,142,144,147,148,15,152,155,157,17318;H04W4/18,1 85	2/1/201 8	KNN		

CPC COMBINATION SETS - SEARCHED					
Symbol Date Examiner					

	US CLASSIFICATION SEARCHED					
Class	Subclass	Date	Examiner			
348	14.01,14.02,14.03,14.04,14.05,14.06,14.07,14.08,14.09, 14.1,14.11,14.12,14.13,14.14,15.15,14.16	2/1/2018	KNN			
379	265.03	2/1/2018	KNN			
455	414.1,566	2/1/2018	KNN			
704	270	2/1/2018	KNN			

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES		
Search Notes	Date	Examiner
East - US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2/1/2018	KNN
East - CPC and USPC searches.	2/1/2018	KNN
NPL search.	2/1/2018	KNN
G01S5/0072;H04M1/72572;H04M2201/40;H04M2250/52;H04M3/4936,51 91	2/1/2018	KNN

/KHAI N NGUYEN/ Primary Examiner.Art Unit 2652

SEARCH NOTES

Search Notes	Date	Examiner
H04N2007/145;H04N21/254,42203,4223,431,4788	2/1/2018	KNN
H04N5/272;H04N7/14,141,142,144,147,148,15,152,155,157,17318;H04W 4/18,185 (See search history)	2/1/2018	KNN

	INTERFERENCE SEARCH		
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

/KHAI N NGUYEN/ Primary Examiner.Art Unit 2652



*~

MATTINGLY & MALUR, PC 1800 DIAGONAL ROAD SUITE 210 ALEXANDRIA VA 22314



Commissioner for Patents United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 www.usplo.gov

Doc Code: TRACK1.GRANT

	Prior	Granting Request for itized Examination ck I or After RCE)	Application No.: 15/837,402				
1.	THE R	EQUEST FILED December 1	1, 2017 IS GRANTED.				
	The above-identified application has met the requirements for prioritized examination A.						
2.	The above-identified application will undergo prioritized examination. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:						
	Α.	filing a petition for extension o	f time to extend the time period for filing a reply;				
	В.	filing an amendment to amend	the application to contain more than four independent				
ł		claims, more than thirty total claims, or a multiple dependent claim;					
	C.	filing a request for continued examination ;					
	D.	filing a notice of appeal;					
	E.	filing a request for suspension of action;					
	F.	mailing of a notice of allowance;					
	G.	mailing of a final Office action;					
	H.	completion of examination as de	fined in 37 CFR 41.102; or				
	I.	abandonment of the application.					
	Telephone inquiries with regard to this decision should be directed to Brian W. Brown at 571-272-5338.						
	/Brian W. Brown/ Petitions Examiner, Office of Petitions [<i>Signature</i>] (Title)						

U.S. Patent and Trademark Office PTO-2298 (Rev. 02-2012)

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875										Application or Docket Number 15/837,402		
APPLICATION AS FILED - PART I (Column 1) (Column 2) SMALL ENTITY									OR	OTHER THAN ORSMALL ENTITY		
FOR		NUMBE	NUMBER FILED		NUMBER EXTRA		RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)	
BASIC FEE (37 CFR 1.16(a), (b), or (c))		N	N/A		N/A		N/A			N/A	280	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N	N/A		N/A		N/A			N/A	600	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N	N/A		N/A		N/A			N/A	720	
TOTAL CLAIMS (37 CFR 1.16(i))		16	16 minus 20=		* 				OR	× 80 =	0.00	
INDEPENDENT CLAIMS (37 CFR 1.16(h))		MS 4	4 minus 3 =		= [*] 1				1	× 420 =	420	
FEE	PLICATION SIZ E CFR 1.16(s))	E sheets of p \$310 (\$158 50 sheets	If the specification and o sheets of paper, the app \$310 (\$155 for small en 50 sheets or fraction the 41(a)(1)(G) and 37 CFR		pplication size fee due is ntity) for each additional pereof. See 35 U.S.C.						0.00	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))											0.00	
* If the difference in column 1 is I			1 is less than zero, enter		r "0" in column 2.		TOTAL		1	TOTAL	2020	
APPLICATION AS AMENDED - PART II (Column 1) (Column 2) (Column 3)							SMALL ENTITY			OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=		OR	x =		
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		OR	x =		
	Application Size Fee (37 CFR 1.16(s))											
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								OR			
						A	TOTAL .DD'L FEE		OR	TOTAL ADD'L FEE		
		(Column 1)		(Column 2)	(Column 3)							
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	×	=		OR	x =		
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		OR	x =		
	Application Size Fee (37 CFR 1.16(s))								1			
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								OR			
							TOT A L .DD'L FEE		OR	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 found in the appropriate box in column 1. 												
	United State	<u>s Patent</u>	and Tradema	UNITED ST United Stat Address: COM P.O. Bo	hria, Virginia 22313-1450							
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS IND CLAIMS							
15/837,402	12/11/2017	2656	2020	ASA-9567-06	16 4							
0.4050					CONFIRMATION NO. 6521							
24956				FILING	RECEIPT							
MATTINGLY 8 1800 DIAGON SUITE 210	•											
ALEXANDRIA	, VA 22314											

Date Mailed: 01/12/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

Inventor(s)

Kazunori IWABUCHI, Yokohama, JAPAN; Hiroki MIZOSOE, Kawasaki, JAPAN; Mutsumi SHIMODA, Kawasaki, JAPAN; Setiawan BONDAN, Yamato, JAPAN; Manabu SASAMOTO, Yokohama, JAPAN;

Applicant(s)

Maxell, Ltd., Kyoto, JAPAN;

Power of Attorney: The patent practitioners associated with Customer Number 24956

Domestic Priority data as claimed by applicant

This application is a CON of 15/631,298 06/23/2017 which is a CON of 15/215,839 07/21/2016 PAT 9723268 which is a CON of 14/811,048 07/28/2015 PAT 9432618 which is a CON of 13/723,312 12/21/2012 PAT 9124758 which is a CON of 12/457,257 06/04/2009 PAT 8363087

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <u>http://www.uspto.gov</u> for more information.) JAPAN 2008-246232 09/25/2008 No Access Code Provided

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/837,402**

Projected Publication Date: 04/19/2018

Non-Publication Request: No

Early Publication Request: No

Title

TELEVISION RECEIVER WITH A TV PHONE FUNCTION

Preliminary Class

348

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific page 2 of 4

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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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 U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

page 3 of 4

technology, manufacture products, deliver services, and grow your business, visit <u>http://www.SelectUSA.gov</u> or call +1-202-482-6800.

page 4 of 4

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION
UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	Kazunori IWABUCHI	Nonprovisional Application Number (if known):		
Title of Invention:	TELEVISION RECEIVER WITH A TV PHONE FUNCTION			

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

- The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently \$0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.
- 2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.
- 3. The applicable box is checked below:
 - I. **V** Original Application (Track One) Prioritized Examination under § 1.102(e)(1)
- i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.
 ---OR---
 - (b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.
- ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, <u>or</u> the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.
 - II. Request for Continued Examination Prioritized Examination under § 1.102(e)(2)
- i. A request for continued examination has been filed with, or prior to, this form.
- ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
- iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
- iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
- v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

_{signature} /John R. Mattingly/	December 11, 2017
Name (Print/Typed) John R. Mattingly	Practitioner Registration Number 30293
<u>Note</u> : This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) fo Submit multiple forms if more than one signature is required.*	or signature requirements and certifications.
\checkmark *Total of <u>1</u> forms are submitted.	

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:

- 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.
- 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.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	ASA-9567-06		
		Application Number			
Title of Invention	TELEVISION RECEIVER WITH A TV PHONE FUNCTION				
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the					

document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1					Remove	
Legal Name						
Prefix Given Name		Middle Nam	e	Family N	Name	Suffix
▼ Kazunori				WABUCI	HI	
Residence Information	(Select One)	US Residency	 Non US R 	esidency	Active US Military Servic	e
City Yokohama		Country of I	Residence ⁱ		JP	
Mailing Address of Inven	tor:					
Address 1	c/o Hitachi, Ltd., I	ntellectual Prone	erty Group			
Address 2	6-1 Marunouchi 1	-				
City Tokyo		enome, omjeu	State/Pro	vince		
Postal Code	100-8220		Country	JP		
Inventor 2					Remove	
Legal Name						
Prefix Given Name		Middle Nam	e	Family N	Name	Suffix
- Hiroki				MIZOSOE		┫│
Residence Information	(Select One)	US Residency	Non US R	esidency	Active US Military Servic	
City Kawasaki		Country of I	Residence ⁱ		JP	
Mailing Address of Inven	tor:					
Address 1	Address 1 c/o Hitachi, Ltd., Intellectual Property Group					
Address 2	6-1 Marunouchi 1	-chome, Chiyod	a-ku			
City Tokyo			State/Pro	vince		
Postal Code	100-8220		Countryi	JP		
Inventor 3					Remove	
Legal Name						

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Application Da	ta Shaat 27 CED 4	76	Attorney D	ocke	t Number	ASA-9567-	-06		
Application Data Sheet 37 CFR 1.			Application Number						
Title of Invention TELEVISION RECEIVER WITH A TV PHONE FUNCTION									
Prefix Given Name			ddle Name			Family Na	ame	S	uffix
✓ Mutsumi						SHIMODA			•
Residence Inform	nation (Select One)	US	Residency	۲	Non US Res	sidency	Active US Military Service	:	
City Kawasaki			ountry of Re	eside	nce ⁱ		JP		
Mailing Address of	f Inventor:								
Address 1	c/o Hitachi, Ltd.,	Intelle	ectual Propert	ty Gro	pup				
Address 2	6-1 Marunouchi	1-cho	me, Chiyoda-	ku			-		
City Toky					State/Prov				
Postal Code	100-8220			Cou	ntry i	JP			
Inventor 4							Remove		
Legal Name									
Prefix Given Na	ne	Mi	ddle Name			Family Name		S	uffix
 Setiawan 						BONDAN			•
Residence Inform	nation (Select One)	US	Residency	۲	Non US Res	sidency	Active US Military Service	!	
City Yamato			ountry of Re	eside	nce ⁱ		JP		
Mailing Address of Address 1	c/o Hitachi, Ltd.,		•		oup				
Address 2 City	6-1 Marunouchi	I-GNO	ne, Chiyoda-	ĸu	State/Prov	ince			
Postal Code	100-8220			Cou	ntryi	JP			
				004			Remove		
Inventor 5 Legal Name									
Prefix Given Na									uffix
┟╶╷╴╴┍═╁╴┏━━━━━━━	ne	Mi	ddle Name			Family Na		S	
✓ Manabu						SASAMOT	0		▼
Residence Inform	ne nation (Select One)	US	Residency	۲	Non US Res	SASAMOT	O Active US Military Service		•
		US				SASAMOT	0		•
Residence Inform	nation (Select One)	US	Residency			SASAMOT	O Active US Military Service		
Residence Inform City Yokohama Mailing Address of	nation (Select One) f Inventor:		Residency country of Re	eside	nce ⁱ	SASAMOT	O Active US Military Service		
Residence Inform City Yokohama Mailing Address of Address 1	nation (Select One) f Inventor:		Residency country of Re	eside	nce ⁱ	SASAMOT	O Active US Military Service		
Residence InformCityYokohamaMailing Address of Address 1Address 2	nation (Select One) f Inventor: c/o Hitachi, Ltd., 6-1 Marunouchi		Residency country of Re	eside	nce ⁱ oup	SASAMOT	O Active US Military Service		
Residence Inform City Yokohama Mailing Address of Address 1 Address 2 City Toky	nation (Select One) f Inventor: c/o Hitachi, Ltd., 6-1 Marunouchi		Residency country of Re ectual Propert me, Chiyoda-	eside ty Gro ku	nce i oup State/Prov	SASAMOT sidency	O Active US Military Service		
Residence InformCityYokohamaMailing Address of Address 1Address 2	nation (Select One) f Inventor: c/o Hitachi, Ltd., 6-1 Marunouchi		Residency country of Re ectual Propert me, Chiyoda-	eside ty Gro ku	nce ⁱ oup	SASAMOT	O Active US Military Service		

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	ASA-9567-06
		Application Number	
Title of Invention	TELEVISION RECEIVER WIT	TH A TV PHONE FUNCTION	
All Inventors Must Ba Listed Additional Inventor Information blacks may be			

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.

Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence Information of this application.						
Customer Number	24956					
Email Address	ptomail@mmiplaw.ocm	Add Email	Remove Email			

Application Information:

Title of the Invention	TELEVISION RECE	ELEVISION RECEIVER WITH A TV PHONE FUNCTION				
Attorney Docket Number	ASA-9567-06		Small Entity Status Claimed			
Application Type	Nonprovisional		~			
Subject Matter	Utility	Utility				
Total Number of Drawing	Sheets (if any)	10	Suggested Figure for Publication (if any)			
Filing By Reference:						
Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").						

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

Request Early Publication (Fee required at time of Request 37 CFR 1.219)
Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

IPR2020-00200

PTO/AIA/14 (11-15)

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Application Da	ta Sheet 37 CFR 1.76	Attorney Docket Number	ASA-9567-06			
	ita Sheet S7 CFK 1.70	Application Number				
Title of Invention TELEVISION RECEIVER WITH A TV PHONE FUNCTION						
Please Select One	: • Customer Numbe	r US Patent Practitione	er O Limited Recognition (37 CFR 11.9)			
Customer Number	24956					

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78. When referring to the current application, please leave the "Application Number" field blank.								
Prior Application Status Pending					Rer	nove		
Application N	lumber	Cont	inuity Type		Prior Application Nun	nber		or 371(c) Date YY-MM-DD)
		Continuation of	of	•	15631298		2017-06-23	
Prior Applicati	on Status	Patented		•			Rer	nove
Application Number	Cont	inuity Type	Prior Applicat Number	ion	Filing Date (YYYY-MM-DD)	Pat	ent Number	Issue Date (YYYY-MM-DD)
15631298	Continuat	iion of 🗸 🔻	15215839		2016-07-21 972		23268	2017-08-01
Prior Applicati	on Status	Patented		•	Remove			
Application Number	Cont	inuity Type	Prior Applicat Number	ion	Filing Date (YYYY-MM-DD)	Pat	ent Number	Issue Date (YYYY-MM-DD)
15215839	Continuat	ion of 🗸 🗸	14811048		2015-07-28	94:	32618	2016-08-30
Prior Applicati	on Status	Patented		•			Ren	nove
Application Number	Cont	inuity Type	Prior Applicat Number	ion	Filing Date (YYYY-MM-DD)	Pat	ent Number	Issue Date (YYYY-MM-DD)
14811048	Continuat	tion of 🗾 👻	13723312		2012-12-21	91:	24758	2015-09-01
Prior Applicati	on Status	Patented		•			Ren	nove
Application Number	Cont	inuity Type	Prior Applicat Number	ion	Filing Date (YYYY-MM-DD)	Pat	ent Number	Issue Date (YYYY-MM-DD)
13723312 Continuation of I 12457257 2009-06-04 8363087 2013-01-29						2013-01-2 9		
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.								

Foreign Priority Information:

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Application Da	ta Shoot 37 CED 1 76	Attorney Docket Number	ASA-9567-06
Application Data Sheet 37 CFR 1.76		Application Number	
Title of Invention	TELEVISION RECEIVER WIT	H A TV PHONE FUNCTION	

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

			Remove
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
2008-246232	JP	2008-09-25	
Additional Foreign Priority Add button.	Add		

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March
 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB c	control number
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	ASA-9567-06
		Application Number	
Title of Invention	TELEVISION RECEIVER WIT	H A TV PHONE FUNCTION	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant <u>must opt-out</u> of the authorization by checking the corresponding box A or B or both in subsection 2 below.

<u>NOTE</u>: This section of the Application Data Sheet is <u>**ONLY**</u> reviewed and processed with the <u>**INITIAL**</u> filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. <u>Priority Document Exchange (PDX)</u> - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby <u>grants the USPTO authority</u> to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h) (1).

B. <u>Search Results from U.S. Application to EPO</u> - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby <u>grants the USPTO authority</u> to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

PTO/AIA/14 (11-15) Approved for use through 04/30/2017. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	ASA-9567-06
		Application Number	
Title of Invention	TELEVISION RECEIVER WIT	H A TV PHONE FUNCTION	

Applicant Information:

Applicant 1					Remove
The information to be provide 1.43; or the name and addres who otherwise shows sufficie applicant under 37 CFR 1.46	d in this sea s of the ass nt proprieta (assignee,	naining joint inventor or invent ction is the name and address signee, person to whom the ir ry interest in the matter who i person to whom the inventor more joint inventors, then the	s of the legal represent aventor is under an obli s the applicant under 3 is obligated to assign, o	ative who is the gation to assign 7 CFR 1.46. If th or person who of	applicant under 37 CFR the invention, or person le applicant is an therwise shows sufficient
Assignee		Legal Representative ur	nder 35 U.S.C. 117	Join	t Inventor
Person to whom the inven	tor is obliga	ted to assign.	Person who sh	nows sufficient p	roprietary interest
f applicant is the legal rep	resentative	e, indicate the authority to	file the patent application	ation, the inven	tor is:
				•	
Name of the Deceased or	Legally In	capacitated Inventor:			
If the Applicant is an Orga	anization o	heck here.			
Organization Name	Aaxell, Ltd.				
Mailing Address Inform	ation For	Applicant:			
Address 1	1, Koizı	ımi, Oyamazaki, Oyamazaki⊣	cho Otokuni-gun		
Address 2					
City	Kyoto		State/Province		
Country ^j JP			Postal Code	618-8525	
Phone Number		Fax Number			
				L	

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

PTO/AIA/14 (11-15)

Approved for use through 04/30/2017. OMB 0651-0032 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 contains a valid OMB control number.

	Attorney Docket Number ASA-9567-06							
Application Data Sheet 37 CFR 1.76			Attorney Doc Application N		· ASA-956	7-06		
Title of Invention	TELEVIS	SION RECEIVER WIT						
Assignee 1	Assignee 1							
application publication	on. An assigr plicant. For a	e information, including nee-applicant identifie an assignee-applicant	d in the "Applica	ant Informatio	n" section will	appear on th		
						F	Remove	
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Signature:						[Remove	
NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c). This Application Data Sheet must be signed by a patent practitioner if one or more of the applicants is a juristic entity (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, all joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of all joint inventor-applicants. See 37 CFR 1.4(d) for the manner of making signatures and certifications.								
Signature /JOHN R. MATTINGLY/ Date				Date (Y	YYY-MM-DI	D) 2017-12-11		
First Name JO	HN	Last Name	MATTINGLY		Registra	ation Numbe	r 30293	
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	ASA-9567-06
		Application Number	
Title of Invention	TELEVISION RECEIVER WIT	H A TV PHONE FUNCTION	

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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**.

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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 the Freedom of Information Act requires disclosure of these records.
- 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 CooperationTreaty.
- 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 inspections 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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

- Inventor(s) : K. IWABUCHI, et al.
- Serial No. : To be assigned
- Filed : December 11, 2017
- For : TELEVISION RECEIVER WITH A TV PHONE FUNCTION
- Group : To be assigned
- Examiner : To be assigned
- Docket No. : ASA-9567-06
- Customer No.: 24956

INFORMATION DISCLOSURE STATEMENT (IDS) UNDER § 1.97 AND § 1.98

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

December 11, 2017

Confirmation No.: TBD

Sir:

In the matter of the above-identified application, Applicants are submitting herewith a copy, where required, of the documents listed in the attached form PTO/SB/08a. It is requested that the information be considered by the Examiner during prosecution of the application, and that the references be made of record therein.

Applicants note that:

One or more references cited on the attached PTO/SB/08a was cited by or submitted to the U.S. Patent and Trademark Office in parent application No. 15/631,298, filed June 23, 2017, which is relied upon for an earlier filing date under 35 U.S.C. §120. No copies of the references are attached pursuant to 37 CFR §1.98(d).

The Commissioner is authorized to charge any shortage in the fees due, or credit any overpayment, to Deposit Account No. 50-1417.

If the PTO determines that part(s) of the required content is inadvertently omitted, then it is requested that the Applicant(s) be given additional time and specific identification of such omission(s) to enable full compliance.

Respectfully submitted,

MATTINGLY & MALUR, PC

<u>/John R. Mattingly/</u> John R. Mattingly Registration No. 30,293 703-684-1120 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number				
	Filing Date	Filing Date			
	First Named Inventor	First Named Inventor WABU		UCHI, K.	
	Art Unit				
	Examiner Name				
	Attorney Docket Number	er	ASA-9567-06		

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8013938		2011-09-06	Shyu	
	2	5526037	B2	1996-06-11	Cortjens, et al.	
	3	6339842		2002-01-15	Fernandez, et al.	
	4	7593031		2009-0 9 -22	Root, et al.	
	5	6529742		2003-03-04	Yang, Jae-Duk	
	6	8326355	В1	2012-12-04	Fujisaki, Iwao	
	7	8676273	В1	2014-03-18	Fujisaki, Iwao	
	8	5684918	А	1997-11-04	Abecassis, Max	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT))

(Not	for	submiss	ion (under	37	CFR	1.99)
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Application Number				
Filing Date		2017-12-11		
First Named Inventor	IWAB	UCHI, K.		
Art Unit				
Examiner Name				
Attorney Docket Number	ər	ASA-9567-06		

9	5528285	A	1996-06-18	Morikawa; Shigenori	
10	5610653	A	1997-03-11	Abecassis; Max	
11	5684918	A	1997-11-04	Abecassis; Max	
12	8363087	B2	2013-01-29	lwabuchi; Kazunori	
13	9124758	B2	2015-09-01	lwabuchi; Kazunori	
14	5467388	А	1995-11-14	Redd, Jr.; James C.	
15	5710591	A	1998-01-20	Bruno; Richard F.	
16	5771065	A	1998-06-23	Hijikata; Toshiyuki	
17	5778053	A	1998-07-07	Skarbo; Rune A.	
18	6859526	B2	2005-02-22	Macklin; Lee Edward	
19	9432618	B2	2016-08-30	lwabuchi; Kazunori	

INFORMATION DISCLOSURE Application Number Filing Date 2017-12-11 First Named Inventor IWABUCHI, K. Art Unit IWABUCHI, K. Examiner Name Attorney Docket Number Attorney Docket Number ASA-9567-06

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	1	20070216760	A1	2007-09-20	Kondo, et al.	
	2	20090174762		2009-07-09	Takahashi	
	3	20090073253		2009-03-19	Lee	
	4	20090079813		2009-03-26	Hildreth	
	5	20090251526		2009-10-08	Book	
	6	20070139514		2007-06-21	Marley	
	7	20070070188		2007-03-29	SHYU	
	8	20010041053	A1	2001-11-15	Abecassis, Max	
	9	20030041333	A1	2003-02-27	Allen et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT))

(Not for submission	under 37	CFR	1.99)
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Application Number				
Filing Date		2017-12-11		
First Named Inventor	IWAB	UCHI, K.		
Art Unit				
Examiner Name				
Attorney Docket Numb	er	ASA-9567-06		

10	20040128700	A1	2004-07-01	Pan, Ming-Da	
11	20070094691	A1	2007-04-26	Gazdzinski, Robert F.	
12	20090174762	A1	2009-07-09	Takahashi, Junichi	
13	20090251526	A1	2009-10-08	Book, Michael	
14	20090013373	A1	2009-01-08	lizuka, Masaki	
15	20130033561	A1	2013-02-07	Kwon, et al.	
16	20010041053	A1	2001-11-15	Abecassis; Max	
17	20020019984	A1	2002-02-14	Rakib, Selim Shlomo	
18	20030206720	A1	2003-11-06	Abecassis, Max	
19	20060041926	A1	2006-02-23	Istvan; Anthony F.	
20	20060212920	A1	2006-09-21	Yamaguchi, Kohei	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number				
Filing Date		2017-12-11		
First Named Inventor	IWAB	UCHI, K.		
Art Unit				
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	30	20150334352	A1	2015-11-19	lwabuchi; Kazunori	
	29	20130127977	A1	2013-05-23	wabuchi; Kazunori	
	28	20100073455	A1	2010-03-25	lwabuchi; Kazunori	
	27	20080309759	A1	2008-12-18	Wilson; Brian	
	26	20070261091	A1	2007-11-08	Tachikawa; Hirohide	
	25	20050250531	A1	2005-11-10	Takebe, Manabu	
	24	20080212949	A1	2008-09-04	Wachtfogel; Reuven	
	23	20080172693	A1	2008-07-17	Ludvig; Edward A.	
	22	20080134278	A1	2008-06-05	Al-Karmi; Ashraf K.	
	21	20070233839	A1	2007-10-04	Gaos; Maria	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT I)

Application Number				
Filing Date		2017-12-11		
First Named Inventor IWAB		UCHI, K.		
Art Unit				
Examiner Name				
Attorney Docket Numb	er	ASA-9567-06		

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	1	2001086475 w/abs	JP	A	2001-03-30	MEGA CHIPS CORP		
	2	2000184346 w/abs	JP	A	2000-06-30	TOSHIBA CORP		
	3	D5-056190	JP		1993-03-05	Matsushita Electric Ind Co Ltd.		
	4	09-083983	ĴΡ		1997-03-28	Matsushita Electric Ind Co Ltd.		
	5	05-236472	JΡ		1993-09-10	Kosutemo KK		
	6	07-184174	JΡ		1995-07-21	Sharp Corp.		
	7	2006-20286	JΡ		2004-06-02	Kondo et al.		
	8	2003-348510	ĴΡ		2003-12-05	Mitsubishi Electric Corp.		
	9	2006-157610	JΡ		2006-06-15	Toshiba Corp.		
	10	2008-079215	JΡ		2008-04-03	Seiko Epson Corp.		

Application Number Filing Date 2017-12-11 First Named Inventor IWABUCHI, K. Art Unit Examiner Name Attorney Docket Number ASA-9567-06

	11	08-289280	JP		1996-11-01	Toshiba Corp.			
	12	05-236472	JΡ	А	1993-09-10	Kosutemu KK			
	13	2007-300594	ĴΡ	А	2007-11-15	Amtran Technology Co Ltd.			
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	1	Japanese Office Action received in corresponding Japanese Application No. 2013-230194 dated March 10, 2015							
	2	Japanese Office Action dated August 5, 2014 in corresponding Japanese Application No.: 2013-230194							
	3	Domestic technical journal 2007-00349-006 - Skype realizes handy video call							
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	Application Number		
	Filing Date		2017-12-11
INFORMATION DISCLOSURE	First Named Inventor	IWAB	UCHI, K.
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		
	Examiner Name		
	Attorney Docket Numb	er	ASA-9567-06

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement 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 the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

 \times A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/John R. Mattingly/	Date (YYYY-MM-DD)	2017-12-11
Name/Print	John R. Mattingly	Registration Number	30,293

This collection of information is required by 37 CFR 1.97 and 1.98. 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 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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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- 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.
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- 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 inspections or an issued patent.
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NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application. Application Number To be assigned December 11, 2017 Filing Date K. IWABUCHI First Named Inventor Title TELEVISION RECEIVER WITH A TV PHONE FUNCTION Art Unit Examiner Name ASA-9567-06 Attorney Docket Number SIGNATURE of Applicant or Patent Practitioner Signature JOHN R. MATTINGLY/ Date (Optional) December 11, 2017 Name Registration JOHN R. MATTINGLY 30293 Number Title (if Applicant is a Attorney iuristic entity) Applicant Name (if Applicant is a juristic entity) NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms. *Total of 1 forms are submitted. V

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. 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 1.11 and 1.14. This collection is estimated to take 3 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**.

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TELEVISION RECEIVER WITH A TV PHONE FUNCTION

INCORPORATION BY REFERENCE

This application is a Continuation of U.S. Application No. 15/631,298, filed June 23, 2017, which is a Continuation of U.S. Application No. 15/215,839, filed July 21, 2016, now U.S. Patent No. 9,723,268 which is a Continuation of U.S. Application No. 14/811,048, filed July 28, 2015, now U.S. Patent No. 9,432,618, which is a Continuation of U.S. Application No. 13/723,312, filed December 21, 2012, now U.S. Patent No. 9,124,758, which is a Continuation of U.S. Application No. 12/457,257, filed June 4, 2009, now U.S. Patent No. 8,363,087. The present application claims priority from U.S. Application No. 12/457,257 filed June 4, 2009, now U.S. Patent No. 8,363,087, which claims priority from Japanese application JP2008-246232 filed on September 25, 2008, the content of which is hereby incorporated by reference into this application.

20 BACKGROUND OF THE INVENTION

Field of the Invention

The present technology relates to a television (TV) receiver set with TV phone functionality added thereto, which is arranged to have a video telephone call enabling means to thereby make it possible to perform video/voice-based telecommunication with another machine. This technology also relates to a TV phone system using videophone function-added TV receivers of this type.

Description of the Related Art

A telephone communication system and TV broadcast system are independently established systems. Traditionally, a telephone equipment and TV receiver set

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are quite different apparatuses. In cases where a telephone receives an incoming call and generates a ring sound or melody (calling sound) signaling the incoming call, a called party fails to hear this sound from time to

- 5 time. A technique for avoiding this risk is disclosed, for example, in JP-A-5-56190. With this technique, a telephone is communicatively connected by a signal transmission line to a TV receiver, wherein the TV receiver is arranged so that upon receipt of an incoming
- 10 call at the telephone, the TV receiver displays a phone call arrival message on its display screen.

Alternatively, a video telephone apparatus is also known, which is arranged to enable a user to make a phone call with a distant party at the other end of a line

- 15 by transmission and reception of video images and voices. This type of videophone typically has a camera, microphone, loudspeaker and image display device and is designed to transmit toward the distant party's videophone video and voice signals that are obtained by the camera
- 20 and microphone of the videophone on the self side, receive video and voice signals from the distant party's videophone, and display this video by the image display device while reproducing the voice by the speaker. In a case where transmission is done to the distant party's
- 25 videophone, a video image and voice are subjected to compression processing (encoding) for transmission while

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simultaneously performing expansion processing (decoding) of a video and voice that are received from the distant party's videophone, and reproducing them at the image display device and speaker (for detail, see JP-A-9-83983). SUMMARY OF THE INVENTION

In the prior known technique as disclosed in JP-A-5-56190, the TV receiver and the videophone are arranged so that these are discrete devices which operate independently of each other. Upon receipt of an incoming

- 10 telephone call at the videophone during watching a TV broadcast program by the TV receiver, a message which notifies arrival of such phone call is displayed on the TV receiver's display screen so that a user easily knows that there is an incoming phone call. In this event, the user
- 15 must walk to a place at which this videophone is put and perform manual operations for startup of talking with a caller on the videophone. This is a time-consuming and troublesome work for the user who is watching his or her preferred TV broadcast program.

In the case of not only starting a telephone call but also ending the phone call, the user is required to perform a manual operation for the phone call completion (e.g., putting a transceiver handset on a base unit or "cradle"). This operation also is performed at 25 the location in which the videophone is placed.

In this way, traditionally, when there is an

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incoming phone call during watching a TV broadcast program by TV receiver, the user must move from a place at which he or she was there until then and perform manual operations for startup and completion of the phone call.

5 These operations are time-consuming and troublesome works to the user.

To provide a solution to the above-stated problem, this technology provides a new and improved TV receiver with TV function(referred to as videophone

- 10 function-added TV receiver hereafter) set having videophone call handling functionality, which performs both the reception of a digital broadcast program signal and the transmission and reception of a videophone signal between itself and another videophone function-added TV
- 15 receiver at the other end of a communication line, wherein the videophone function-added TV receiver is characterized by having a decoder which decodes a received digital broadcast program signal and videophone signal, a display panel to which is supplied a video signal that is decoded
- 20 by the decoder and which visually displays it on a screen, a loudspeaker module to which is supplied an audio/voice signal which is decoded by the decoder, a camera, a microphone, and an encoder which encodes output signals of the camera and microphone.

25 Another feature of the videophone function-added TV receiver lies in that it further includes an encoder

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which generates a videophone signal to be transmitted for videophone communications and a means for detecting completion of a videophone signal decoding operation of the decoder and for stopping an encoding operation of the encoder for generation of the videophone signal.

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This technology also provides a video telephone system using a plurality of videophone function-added TV receiver sets which are linked together via a network for enabling users to make videophone calls between these 10 videophone function-added TV receivers, wherein each videophone function-added TV receiver includes a decoder which has a videophone-use decode function for decoding a videophone signal from another videophone function-added TV receiver at the other end of a line and a TV program-

- 15 use decode function for decoding a digital broadcast program received, a display panel which displays a video signal that is decoded by the decoder, a loudspeaker to which is supplied an audio signal that is decoded by the decoder, a camera, a microphone, an encoder which has a
- 20 videophone-use encode function for encoding a video signal from the camera and an audio signal from the microphone to thereby generate a videophone signal to be sent forth toward a videophone function-added TV receiver of a distant party at the other end of a line in a videophone
- 25 call session, a means for stopping a decoding operation of the decoder by means of the videophone-use decode function

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in responding to either a stop operation or the end of a videophone signal from the videophone function-added TV receiver of the distant party in the videophone call session, and a means for detecting completion of the

- 5 videophone signal decoding operation performed by the decoder and for stopping the encoding operation of the encoder, wherein in case one of the videophone functionadded TV receivers which are presently involved in a videophone communication session experiences termination
- 10 of the decode operation of the decoder by means of the videophone-use decode function thereof in response to execution of the stop operation, when the encoding operation of the encoder is stopped in responding thereto, the videophone function-added TV receiver of the distant
- 15 party, e.g., a calling party or a called party at the other end of the line, is such that the decoder stops its decoding operation by means of the videophone-use decode function thereof to thereby force the encoder to stop its encoding operation by means of the videophone-use encode 20 function in response to the stop of the decoding

operation.

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This technology also provides a video telephone system using a plurality of videophone function-added TV receiver sets which are linked together via a network for enabling users to make videophone calls between these

videophone function-added TV receivers, wherein each

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videophone function-added TV receiver includes a decoder which has a videophone-use decode function for decoding a videophone signal from another videophone function-added TV receiver at the other end of a line and a TV program-

- 5 use decode function for decoding a digital broadcast program received, a display panel which displays a video signal that is decoded by the decoder, a loudspeaker to which is supplied an audio signal that is decoded by the decoder, a camera, a microphone, an encoder which has a
- 10 videophone-use encode function for encoding a video signal from the camera and an audio signal from the microphone to thereby generate a videophone signal to be sent forth toward a videophone function-added TV receiver of a distant party at the other end of a line in a videophone
- 15 call session, a means for stopping a decoding operation of the decoder by means of the videophone-use decode function in responding to either a stop operation or the end of a videophone signal from the videophone function-added TV receiver of the distant party in the videophone call
- 20 session, a means for detecting completion of the videophone signal decoding operation performed by the decoder and for stopping the encoding operation of the encoder, and a means for detecting completion of the videophone signal decoding operation of the decoder and
- 25 for sending a stop command signal to the videophone function-added TV receiver of the distant party at the

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other end of the line, wherein in case one of the videophone function-added TV receivers which are presently involved in a videophone communication session experiences termination of the decode operation of the decoder by

- 5 means of the videophone-use decode function thereof in response to execution of the stop operation, when the encoding operation of the encoder is stopped in responding thereto, and also when the stop command signal is sent to the videophone function-added TV receiver of the distant
- 10 party, this distant party's videophone function-added TV receiver operates so that the decoder stops its decoding operation by means of the videophone-use decode function thereof in response to receipt of the stop command signal and, in response to this decode operation stop, the
- 15 decoder stops the decoding operation by means of the videophone-use decode function thereof.

This technology also provides a video telephone system using a plurality of videophone function-added TV receiver sets which are linked together via a network for 20 enabling users to make videophone calls between these videophone function-added TV receivers, wherein each videophone function-added TV receiver includes a decoder which has a videophone-use decode function for decoding a videophone signal from another videophone function-added

25 TV receiver at the other end of a line and a TV programuse decode function for decoding a digital broadcast

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program received, a display panel which displays a video signal that is decoded by the decoder, a loudspeaker to which is supplied an audio signal that is decoded by the decoder, a camera, a microphone, an encoder which has a

- 5 videophone-use encode function for encoding a video signal from the camera and an audio signal from the microphone to thereby generate a videophone signal to be sent forth toward a videophone function-added TV receiver of a distant party at the other end of a line in a videophone
- 10 call session, a means for stopping an encoding operation by means of the videophone-use encode function of the encoder in response to a stop operation of a videophone call, a means for detecting completion of an encoding operation of a video signal from the camera and an audio
- 15 signal from the microphone to be performed by the encoder and for stopping the decoding operation by means of the videophone-use decode function of the decoder, and a means for detecting completion of the encoding operation of the encoder and for sending a stop command signal to a
- 20 videophone function-added TV receiver of a distant party at the other end of a line, wherein in case one of the videophone function-added TV receivers which are presently involved in a videophone communication session experiences termination of the encode operation of the encoder by
- 25 means of the videophone-use encode function thereof in response to execution of a stop operation, when the

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decoding operation of the decoder is stopped in responding thereto, and also when the stop command signal is sent to the videophone function-added TV receiver of the distant party, this distant party's videophone function-added TV

- 5 receiver is such that the encoder stops its encoding operation by means of the videophone-use encode function thereof in response to receipt of the stop command signal and, in response to the stop of this encode operation, the decoder stops the decoding operation by means of the
- 10 videophone-use decode function thereof.

This technology also provides a videophone function-added television receiver having a video camera detachably connected to an apparatus main body, wherein the TV receiver includes in the apparatus main body a

- 15 decoder which has a television program-use decode function for decoding a digital broadcast program signal received and a videophone-use decode function for decoding a video telephone signal as received in a videophone call session, and a processor for control of each component, wherein
- 20 the video camera has a camera, a microphone, a storage device which stores therein a video signal from the camera and an audio signal from the microphone, and an encoder to which are supplied a video signal as output from the camera and an audio signal as output from the
- 25 microphone and which encoder has a videophone-use encode function of encoding the video signal and the audio signal

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into a video telephone signal to be transmitted to a videophone function-added television receiver of a distant party in a videophone call session and a video recordinguse encode function for encoding the video signal and the

- 5 audio signal into a video signal to be recorded in the storage device, and wherein in a state that the video camera is connected to the apparatus main body, when the decoder is in a state that it operates to perform the videophone-use decode function, the processor sets the
- 10 encoder in a state that it operates to perform the videophone-use encode function thereof, resulting in the decoder being switched from the operation state of the videophone-use decode function to an operation state of the television program-use decode function and,
- 15 alternatively, when the video camera is in a state that it is disconnected from the apparatus main body, the processor sets the encoder in a state that it operates to perform the video recording-use encode function.

In the videophone function-added television 20 receiver, the video camera is a separate equipment independent of the apparatus main body and is detachably coupled to the apparatus main body.

Alternatively, in the videophone function-added television receiver, the video camera is internally 25 mounted in the apparatus main body.

This technology also provides a videophone

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system using a plurality of videophone function-added TV receivers of the type stated above, which are linked together via a network for enabling users to make a videophone call between any two of the videophone

- 5 function-added TV receivers, wherein the system includes a means for stopping an encoding operation by means of a videophone-use encode function of an encoder in response to a stop operation of a videophone call, a means for detecting completion of an encoding operation of a video
- 10 signal from a camera and an audio signal from a microphone to be performed by the encoder and for stopping a decoding operation by means of a videophone-use decode function of a decoder, and a means for detecting completion of the encoding operation of the encoder and for sending a stop
- 15 command signal to a videophone function-added TV receiver of a distant party at the other end of a line, wherein in case one of the videophone function-added TV receivers which are presently involved in a videophone communication session experiences termination of the encode operation of
- 20 the encoder by means of the videophone-use encode function thereof in response to execution of a stop operation, when the decoding operation of the decoder is stopped in responding thereto, and also when the stop command signal is sent to the videophone function-added TV receiver of
- 25 the distant party, this distant party's videophone function-added TV receiver is such that the encoder stops

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its encoding operation by means of the videophone-use encode function thereof in response to receipt of the stop command signal and, in response to this encode operation stop, the decoder stops the decoding operation by means of the videophone-use decode function thereof.

This technology also provides a videophone function-added TV receiver, wherein a decoder includes a first decoder operative to decode the received digital broadcast program signal and a second decoder for decoding

- 10 the video telephone signal, wherein a display panel performs two-window display for simultaneously displaying on one screen a video image based on the digital broadcast program signal decoded by the first decoder and a video image based on the video telephone signal decoded by the
- 15 second decoder, wherein an echo canceller is provided to receive an audio signal as output from the microphone and an input audio signal of the speaker, and wherein an echo signal due to unwanted mixture of audio sounds from the speaker into the audio signal as output from the
- 20 microphone is canceled by the echo canceller using the input audio signal of the speaker and is then supplied to an encoder.

The technology further provides a videophone system using videophone function-added TV receivers of the 25 type stated supra, wherein a decoder includes a first decoder operative to decode the received digital broadcast

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program signal and a second decoder for decoding the video telephone signal, wherein a display panel performs twowindow display for simultaneously displaying on one screen a video image based on the digital broadcast program

- 5 signal decoded by the first decoder and a video image based on the video telephone signal decoded by the second decoder, wherein an echo canceller is provided to receive an audio signal as output from the microphone and an input audio signal of the speaker, and wherein an echo signal
- 10 due to mixture of audio sounds from the speaker into the audio signal as output from the microphone is canceled by the echo canceller using the input audio signal of the speaker and is then supplied to an encoder.
- With the above-stated arrangement, it is 15 possible to provide a TV receiver with increased usability for users. For example, video image displaying for a videophone call is performed using the display screen and loudspeaker module which are inherently used for digital TV broadcast programs; so, it is possible for a user to
- 20 start a phone call and finish the call without having to move from a place at which s/he is enjoying a digital TV broadcast program. This saves the user's labor for such moving action. Additionally, upon completion of the phone call, the decoder and encoder are automatically rendered
- 25 inoperative without requiring the user to perform manual operations. This results in a decrease in labor for such

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operations. It is also possible to prevent a calling party from becoming aware of the digital TV broadcast program which is watched by the user.

Other objects, features and advantages of the 5 invention will become apparent from the following description of the embodiments of the invention taken in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a diagram showing a perspective view 10 of exterior appearance of a videophone function-added television (TV) receiver set in accordance with a first embodiment.

Fig. 2 is a block diagram showing a practical example of an electrical/electronic circuit configuration 15 of the videophone function-added TV receiver of the first embodiment shown in Fig. 1.

Fig. 3 is a system diagram showing one embodiment of a video telephone system using videophone function-added TV receivers.

20 Fig. 4 is a plan view of an example of operation part of a remote control in Figs. 1 and 2.

Fig. 5 is a diagram showing, in table form, processing procedures in a video-on-demand (VOD) function mode and videophone function mode of the videophone 25 function-added TV receiver shown in Figs. 1 and 2.

IPR2020-00200 Apple Inc. EX1002 Page 154 Fig. 6 is a diagram showing one example of inbound call handling processing in a case where there is a call-in of the videophone function-added TV receiver shown in Fig. 1 or Fig. 2.

5 Figs. 7A and 7B are flow charts showing practical examples of forced start/stop control operations of a decoder and encoder, which are executed by respective processors upon startup and completion of a phone call between the videophone function-added TV receivers shown 10 in Fig. 3.

Fig. 8 is a diagram showing a perspective view of outer appearance of a videophone function-added TV receiver in accordance with a second embodiment.

Fig. 9 is a block diagram showing a practical 15 example of a circuit configuration of the videophone function-added TV receiver of the second embodiment shown in Fig. 8.

Fig. 10 is a flowchart showing a procedure for connect control of a video camera of Fig. 9 to be 20 performed by a processor in videophone function mode.

Fig. 11 is a flowchart showing a procedure for select control of an operation mode of the video camera in Fig. 9.

Fig. 12 is a block diagram showing a practical 25 example of a circuit configuration of a videophone function-added TV receiver in accordance with a third

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embodiment.

5

Fig. 13 is a diagram for explanation of leakage of audio sounds from a pair of loudspeakers to a microphone in the videophone function-added TV receiver shown in Fig. 12.

Figs. 14 is a diagram schematically showing waveforms of some major signals for explanation of an operation of an echo canceller shown in Fig. 12.

10 DESCRIPTION OF THE EMBODIMENTS

Currently preferred embodiments will be described with reference to the accompanying figures of the drawing below.

Fig. 1 is a diagram showing a perspective view 15 of exterior appearance of a television (TV) receiver set with additional video telephone functionality in accordance with a first embodiment. The videophone function-added TV receiver is designated by reference numeral 1, which has a display screen 2, loudspeaker

20 module 3, video camera 4, microphone 5, communications network cable 6, and wireless remote control device 7.

As shown in Fig. 1, the loudspeaker module 3 includes a couple of spaced-apart speakers, which are mounted in a front panel of housing of the videophone

25 function-added TV receiver 1 at right and left side corners below the display screen 2. The camera 4 is

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embedded in the front panel at a center position of lower side which is midway between the right and left speakers. This camera 4 has its image pickup lens which is exposed to outside. The microphone 5 is built in the front panel 5 of housing at an upper center position above the display screen 2. This first embodiment is the one that has a built-in video camera in the housing of videophone function-added TV receiver 1.

- The videophone function-added TV receiver 1 also 10 has an antenna (not shown) for enabling it to receive digital broadcast programs and, simultaneously, is linked by the network 6 to a video-on-demand (VOD) server, thereby enabling it to receive services (downloads) of any available contents from this VOD server—say, VOD
- 15 contents. The videophone function-added TV receiver 1 is also linked by the network 6 to other videophone functionadded TV receivers and thus is capable of performing video telephone communications with these TV receivers.

The videophone function-added TV receiver 1 of 20 Fig. 1 is controlled by the remote control 7 and, by a manual operation of this remote control, receives digital broadcast programs, downloads VOD contents and/or makes a videophone call with another videophone function-added TV receiver.

25 Note here that in the case of considering the height due to recent growth in size of TV receivers, when

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a user watches the display screen while he or she sits on a sofa in a room, such as a family room, if the camera 4 is disposed on upside of the display screen 2, the camera 4 looks down the user and, in this state, captures or

- 5 "shoots" an image of the user. Accordingly, when the videophone function-added TV receiver 1 is used as a videophone, a video image of the user who bends down his or her head is transmitted to and displayed at a videophone function-added TV receiver of a distant party
- 10 at the other end of a communication line. It is generally not commeasurable to display the image of a calling or called party who looks down in a videophone call session. Consequently, in this embodiment, the camera 4 is disposed on the lower side of the display screen 2.

15 The speakers 3 are located in close proximity to the camera 4. In order to prevent deterioration of performance of the microphone 5 otherwise occurring due to unwanted mixture of vibrations (audio/voice sounds) of the speakers 3 into the microphone 5, this microphone 5 is 20 spaced apart from the speakers 3 and is disposed at the center position above the display screen 2.

Fig. 2 is a block diagram showing a practical example of electrical/electronic circuit configuration of the TV phone function-added TV receiver 1 of the first

25 embodiment shown in Fig. 1. As shown herein, this TV receiver includes the display panel 8, an antenna 9, TV

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broadcast tuner 10, decoder 11, processor 12, hypertext makeup language (HTML) browser 13, inbound call detection device 14, network interface (I/F) 15, remote control signal receiver 16, storage unit 17 such as a hard disk drive (HDD) or solid-state disk (SSD) using nonvolatile semiconductor memory or else, and encoder 18. Note that

those corresponding to the parts or components of Fig. 1 are denoted by the same reference numerals.

5

- In Fig. 2, the videophone function-added TV 10 receiver 1 of this embodiment has a similar configuration of standard TV receiver set and additionally has several components including the network I/F 15 for communication with external equipment via the network 6, the camera 4 and microphone 5 plus inbound call detector 14 for
- 15 videophone communications, and the HTML browser 13 for VOD contents downloading.

The videophone function-added TV receiver 1 has a TV program viewing function for permitting a user to watch a TV program by receiving a digital broadcast

- 20 program signal by the antenna 9 in response to a manual operation of the remote control 7 and for displaying video image information of such broadcast program on the display screen 2 of display panel 8 while at the same time outputting its audio information from the speakers 3, a
- 25 video telephone function for transmitting a videophone signal containing therein both video image information

IPR2020-00200 Apple Inc. EX1002 Page 159 captured by the camera 4 and audio information that was input from the microphone 5 toward another similar videophone function-added TV receiver of a distant party at the other end of a line (referred to hereinafter as the

- 5 other-side videophone function-added TV receiver), not shown, via the network 6 that is linked to the videophone function-added TV receiver 1 and receiving a videophone signal from this other-side videophone function-added TV receiver via the network 6 and also displaying its video
- 10 image information on the display screen 2 of display panel 8 while simultaneously outputting its audio information from the speakers 3 to thereby perform videophone telecommunication with the distant party at the other end of the line, and a VOD function for requesting a server
- 15 (not shown) to provide desired contents of a moving picture and/or text data via the network 6 and acquiring moving-picture contents to be provided from this server via the network 6 in reply to this request and then displaying such moving picture information on the display
- 20 screen 2 while outputting its audio information from the speakers 3. These functions are selectable by manual operation of the wireless remote control 7.

An operation signal from the remote control 7 which indicates an instruction operation thereof is

25 received at the remote control signal receiver 16 and then supplied to the processor 12. This processor 12 performs

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control of respective units in accordance with the operation signal supplied. When execution of TV program viewing function is instructed by the remote control 7, the processor 12 sets up a mode for executing the TV

- 5 broadcast program viewing function (referred to as TV broadcast program viewing function mode hereinafter). When execution of the video telephone function is instructed by the remote control 7, the processor 12 sets up a mode for executing the video telephone function
- 10 (referred to as videophone function mode hereafter). When execution of the VOD function is instructed by the remote control 7, the processor 12 sets up a mode for executing the VOD function (referred to as VOD function mode hereafter).
- 15 An explanation will next be given of a system with reference to Fig. 3, in which system the videophone function-added TV receiver 1 is used.

Fig. 3 is a diagram schematically showing a principal configuration of one embodiment of a video 20 telephone system using videophone function-added TV receivers. This system includes the videophone functionadded TV receiver 1, another (distant party's) videophone function-added TV receiver 1' on the other end of a communication line, a telephone server 20 and VOD server

25 21. Parts corresponding to those of Fig. 2 are designated by the same reference numeral.

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As shown in Fig. 3, the videophone functionadded TV receivers 1 and 1', telephone server 20 and VOD server 21 are communicatively linked together via the network 6. Although a large number of similar videophone 5 function-added TV receivers are connected to the network 6, only two videophone function-added TV receivers 1 and 1' are shown in Fig. 3 for the purpose of convenience in illustration, wherein one of them is assumed to be a certain user's videophone function-added TV receiver 1 10 whereas the other of them is the "other-side" videophone function-added TV receiver 1' of a distant party at the other end of a line which performs videophone

communication with the "self-side" videophone functionadded TV receiver 1.

15 It should be noted that the other-side videophone function-added TV receiver 1' is similar in configuration to the videophone function-added TV receiver 1. Although its configuration is not specifically illustrated herein, the other-side videophone function-

- 20 added TV receiver 1' has similar parts or components similar to those of Fig. 2, which will be denoted by corresponding reference numerals with an apostrophe (') being added thereto, such as decoder 11', encoder 18', etc. Also note that although the explanation below is
- 25 mainly directed to the videophone function-added TV receiver 1, the same goes with the other-side videophone

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function-added TV receiver 1'.

When the videophone function-added TV receiver 1 is set in the TV broadcast program viewing function mode, a digital broadcast program signal which is received at an 5 antenna that is not depicted (i.e., the antenna 9 of Fig. 2) is subjected to decode processing, thereby enabling such TV program to be viewed by human eyes. When the videophone function-added TV receiver 1 is set in the videophone function mode, the videophone function-added TV

- 10 receiver 1 and other-side videophone function-added TV receiver 1' are linked together by the telephone server 20 so that these are communicable with each other via the network 6. When the videophone function-added TV receiver 1 is in the VOD function mode, the videophone function-
- 15 added TV receiver 1 is linked via the network 6 to the VOD server 21 so that requested contents are provided from the VOD server 21 to the videophone function-added TV receiver 1 in response to a request from the videophone functionadded TV receiver 1.

Fig. 4 is a plan view of an example of the wireless remote control 7 shown in Figs. 1 and 2. This remote control 7 has on its front panel several manual operation buttons, including a "Power" button 7a, "TV" button 7b, "VOD" button 7c, "Phone" button 7d, "Program

25 Guide" button 7e, "Search" button 7f, "Title List" button 7g, "Timer Rec" button 7h, up-down/right-left arrow

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buttons 7i in cross-like layout, "Enter" button 7j, sound volume adjustment buttons 7k, channel select buttons 7l, "Video Rec" button $7m_1$, "Play" button $7m_2$, "Pause" button $7m_3$, "REW" button $7m_4$, "FF" button $7m_5$ and "Stop" button 7n.

5

As shown in Fig. 4, the TV remote control 7 has several kinds of operation buttons for control of the videophone function-added TV receiver 1 (Fig. 2), including the power button 7a for turning power on and

- 10 off, the "Program Guide" button 7e for causing an online digital broadcast program guide table to be displayed on the display screen 2 of display panel 8 (Fig. 2), the "Search" button 7f, the "Title List" button 7g for display of a list of titles of recorded digital broadcast programs
- 15 or a list of titles of available contents in the VOD server 21 (Fig. 3), the "Timer Rec" button 7h for setup of timer recording of digital broadcast programs, the set of cross-like layout arrow buttons 7i for operations of movement of a cursor to be displayed on the display screen
- 20 2 of display panel 8, the "Enter" button 7j for selection and determination of an item in the title list or else being displayed on the display screen 2 of display panel 8, the sound volume buttons 7k for manual adjustment of a sound level of the speakers 3 (Fig. 2), the channel select
- 25 buttons 71 for designating a reception channel of digital broadcast program, the "Video Rec" button $7m_1$ for setting

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the timer recording of a digital broadcast program(s), the "Play" button $7m_2$ for playback of any one of digital broadcast programs recorded, the "Pause" button $7m_3$ for temporary stop of the playback of a digital broadcast

- 5 program being viewed, the "REW" button 7m4 for fast reserve move or "rewind" of a present playback part of recorded digital broadcast program, the "FF" button 7m5 for fast forward move or "advance" of a present playback part of recorded digital broadcast program, and the "Stop"
- 10 button 7n for stopping the playback of a recorded digital broadcast program.

In addition to these manual operation buttons, the TV remote control 7 further has the "TV" button 7b for setting the videophone function-added TV receiver 1 in the

- 15 TV broadcast program viewing function mode, the "VOD" button 7c for setting the videophone function-added TV receiver 1 in the VOD function mode, and the "Phone" button 7d for setting the videophone function-added TV receiver 1 in the videophone function mode. These
- 20 function modes are reset whenever the power button 7a is manually operated to turn power off. When the power button 7a is operated to turn power on, the videophone function-added TV receiver 1 is automatically set in the TV broadcast program viewing function mode in a similar
- 25 way to standard TV receivers so that it becomes in the state that a digital broadcast program is received of the

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channel that has been set immediately before the last power-off.

Note here that the "TV" button 7b is for receiving a digital broadcast program and displaying it on 5 the display screen 2 of display panel 8 when an image other than that of the received digital broadcast program is visualized on the display screen 2 of display panel 8 in an operation mode except the videophone function mode and the VOD function mode (i.e., the TV broadcast program 10 viewing function mode), such as during recording/playback of a digital broadcast program or when a TV program guide or a list of titles of recorded digital broadcast programs is being displayed thereon.

Also note that the videophone function mode and 15 VOD function mode are such that each mode is reset in response to an operation of the "Stop" button 7n, resulting in the mode being changed to the TV broadcast program viewing function mode to thereby establish a state that a digital broadcast program received is displayed on 20 the display screen 2 of display panel 8.

An explanation will next be given of each of the above-stated functions of the videophone function-added TV receiver 1 shown in Fig. 2 to be selected in response to a manual operation of the remote control 7 while referring

25 to Figs. 3 and 4 also.

In Fig. 2, when the "Power" button 7a of TV

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remote control 7 is manually operated to turn on the power of videophone function-added TV receiver 1 and get this TV receiver started, or alternatively, when the "TV" button 7b of remote control 7 is depressed while the videophone

- 5 function-added TV receiver 1 is presently in the abovestated operation state, an operation signal of this remote control 7 is received by the RC signal receiver 16 and supplied to the processor 12. The processor 12 performs decision processing based on this operation signal to
- 10 determine that the TV broadcast program viewing function mode is required from the remote control 7. At this time, the processor 12 renders the broadcast tuner 10, decoder 11, display panel 8 and speakers 3 operative, thereby setting up a state for execution of the TV broadcast
- 15 program viewing function which enables reception of a digital broadcast program signal to be watched. In this case, when the user wants to watch his or her desired digital broadcast program, the user depresses the channel select button 71 of remote control 7 to thereby designate
- 20 a channel of such program whereby the processor 12 controls the broadcast tuner 10 so that this tuner 10 is set in a state for selecting this designated channel.

An encoded digital TV broadcast program signal, such as image compression or the like, being applied to a 25 moving picture of a broadcast program which is received by the antenna 9 and the channel of which is selected by the

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broadcast tuner 10 is supplied to the decoder 11 and applied decoding processing, such as image expansion or else, to thereby obtain a video signal of the image (e.g., moving picture or still image) along with an audio signal thereof. This video signal is supplied to the display panel 8 so that the image of the selected TV broadcast

- program is visually displayed on the display screen 2 while at the same time letting the audio signal be fed to the speakers 3 for output of audio sounds of this TV
- 10 broadcast program.

5

The decoder 11 has a function of decoding the video signal and audio signal of a received digital broadcast program signal (referred to as TV program-use decode function hereinafter), a function of decoding an

- 15 incoming video telephone signal from the other-side videophone function-added TV receiver 1' (Fig. 3), which signal is received at the network I/F 15 (referred to hereinafter as videophone-use decode function), and a function of decoding VOD contents of images (moving
- 20 pictures or still images) and audio sounds which are supplied from the VOD server 21 (Fig. 3) and received by the network I/F 15. Any one of these functions is switchable under control of the controller 12 in responding to receipt of an instruction signal from the TV
- 25 remote control 7, which indicates the user's desired function mode that is set through manual operations of the

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remote control 7.

25

When the videophone function-added TV receiver 1 is presently set in the TV broadcast program viewing function mode, the decoder 11 is set by the processor 12 5 in the state for execution of the TV program-use decode function; so, it decodes a received digital broadcast program signal from the broadcast tuner 10. In this state, when the "Rec" button 7m₁ (Fig. 4) of remote control 7 is manually operated, the processor 12 controls

- 10 the storage unit 17, causing it to perform video-recording of the digital broadcast program signal being received. In this TV broadcast program viewing function mode, when the "Tile List" button 7g (Fig. 4) of remote control 7 is depressed, a list of the tiles of recorded digital
- 15 programs in the storage unit 17 is displayed on the display screen 2 of display panel 8. In this case, when a desired recorded program is selected from this recorded program title list through manual operation of the arrow buttons 7i and "Enter" button 7j (Fig. 4) and then the
- 20 "Play" button 7m₂ of remote control 7 is pressed, a recorded program signal that is selected from among those being stored in the storage unit 17 is played back and decoded by the decoder 11, resulting in a video signal being supplied to the display panel 8 while letting an
 - 5 audio signal be fed to the speakers 3. When the "VOD" button 7b (Fig. 4) of the remote

IPR2020-00200 Apple Inc. EX1002 Page 169 control 7 is operated, the decoder 11 executes the VOD-use decode function under control of the processor 12; then, the HTML browser 13 is rendered operative, followed by setup of the VOD function mode.

5 Then, the VOD contents from the VOD server 21 (Fig. 3) which are received at the network I/F 15 are such that moving-picture image contents and still image contents plus audio contents thereof are decoded by the decoder 11 and then supplied to the display panel 8 and

- 10 speakers 3, resulting in visualization and reproduction of these contents. Text data in the VOD contents is supplied to the HTML browser 13 and converted into data displayable on the display screen 2 and then supplied to the display panel 8. It is noted that although not specifically
- 15 depicted herein, the contents to be provided from the VOD server 21 are supplied to the decoder 11 and/or the HTML browser 13 for viewing/listening and playback at the user's desired time and also supplied to the display panel 8 and speakers 3 for enabling the contents to be
- 20 reproduced thereby.

Additionally, when the "VOD" button 7b of the remote control 7 is depressed, a request signal is transmitted from the processor 12 to the VOD server 21 through the network I/F 15 and network 6. In responding

25 thereto, data of titles of all contents available from the VOD server 21 are provided. The title data is passed to

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the HTML browser 13 through the network I/F 15 whereby a title list window image or "menu" is generated and supplied to the display panel 8. When the user's preferred contents are designated from this menu window by

- 5 manual operations of the cross-like layout arrow buttons 7i and "Enter" button 7j, the processor 12 issues and sends a request of the contents to the VOD server 21 via the network I/F 15 and network 6. With this procedure, the VOD contents requested are provided from the VOD
- 10 server 21 and are processed in the way stated supra so that the contents are displayed on the display screen 2 of display panel 8 while letting audio sounds thereof be output from the speakers 3.
- After completion of the VOD contents, in case 15 the user further wants to get another kind of VOD contents, when the "Title List" button 7g (Fig. 4) is depressed in the state that the VOD function mode is set (i.e., none of the "TV" button 7b and "Phone" button 7d are pressed), a request signal is sent to the VOD server
- 20 21 via the network I/F 15 and network 6 in the abovestated way. In response thereto, data of titles of all the contents available from the VOD server 21 are provided. The title data is supplied to the HTML browser 13 via the network I/F 15 whereby a title list window is
- 25 generated and supplied to the display panel 8. By selecting a desired title of contents using the remote

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control 7 in the way stated previously, the requested contents are provided from the VOD server 21 and then displayed on the display screen 2 of display panel 8 while letting audio sounds be played back by the speakers 3.

5 When the "Videophone" button 7c (Fig. 4) of the remote control 7 is depressed, the decoder 11 is set in a state for execution of the videophone-use decode function under setup control of the processor 12. Simultaneously, the processor 12 renders the camera 4 and microphone 5 10 plus encoder 18 operative and sets up the videophone

function mode. Note that the inbound call detector 14 is always in the state capable of detecting an incoming telephone call from the other-side videophone functionadded TV receiver 1' (Fig. 3) even when the videophone

15 function-added TV receiver 1 is in the power-off state.

Then, a video signal by means of image pickup of the camera and an audio signal indicative of voice sounds as input to the microphone 5 are supplied to the encoder 18 and subjected to compression processing (encoding)

- 20 which is pursuant to videophone telecommunications so that a videophone signal which is obtained thereby is sent from the network I/F 15 via network 6 to the other-side videophone function-added TV receiver 1' (Fig. 3). A videophone signal from the other-side videophone function-
- 25 added TV receiver 1' is received by the network I/F 15 and supplied to the decoder 11 so that a video signal and

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audio signal thereof are subjected to expansion processing (decoding), causing such decoded signals to be supplied to display panel 8 and speakers 3. This enables videophone telecommunication between the videophone function-added TV receiver 1 and the other-side videophone function-added TV

receiver 1'.

5

Alternatively, when there is an incoming phone call from the other-side videophone function-added TV receiver 1', this call-in is detected by the inbound call

10 detector 14; then, this detection result is notified to the processor 12. In responding thereto, the processor 12 renders the camera 4 and microphone 5 plus encoder 18 operative to thereby set up the videophone function mode, resulting in setup of the state that enables videophone 15 communication with the other-side videophone function-

added TV receiver 1'.

The encoder 18 has a function of applying videophone telecommunication-related encode processing to a video signal from the camera 4 and an audio signal from

- 20 the microphone 5 (referred to as videophone-use encode function hereinafter) and a function of performing encode processing that is similar to the encoding of digital broadcast program signals (referred to hereafter as videorecording-use encode function), wherein these encode
- 25 functions are switchable by control of the remote control 7.

When the "Phone" button 7d of the remote control 7 is manually operated resulting in setup of the videophone function mode, the processor 12 that detected this mode setup causes the encoder 18 to be set in the

- 5 state that it executes the videophone-use encode function so that a videophone signal is generated to thereby enable videophone telecommunication with the other-side videophone function-added TV receiver 1' in the way stated supra. Now, suppose that the videophone function-added TV
- 10 receiver 1 is in the TV broadcast program viewing function mode (thus, the decoder 11 is in the state for execution of the TV program-use decode function). When an appropriate button of the remote control 7 for image pickup instruction is manually operated for example, the
- 15 encoder 18 is controlled so that the videorecording-use encode function is set up so that the camera 4 and microphone 5 are rendered operative. A video signal from the camera 4 and an audio signal from the microphone 5 in this case are encoded by the encoder 18 by means of the
- 20 videorecording-use encode function in a similar way to the digital broadcast program signal received. The encoded signal is stored in the storage unit 17 as a videorecording signal. When this videorecord signal being stored in the storage unit 17 is selected using the above-
- 25 stated title list, and then the "Play" button $7m_2$ (Fig. 4) of the remote control 7 is depressed, this videorecord

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signal is read out of the storage unit 17, supplied to the decoder 11 and decoded thereat, resulting in such video signal being supplied to the display panel 8 while letting its associative audio signal be fed to the speakers 3. In

- 5 this case, the videophone function mode is not set yet; so, the video signal and audio signal from this encoder 18 are not supplied to the network I/F 15. Thus, the information of a situation in front of the videophone function-added TV receiver 1 is acquired by the camera 4
- 10 and microphone 5. This information is temporarily stored in the storage unit 17 in a manner that the information is later browsable by the videophone function-added TV receiver 1.

Fig. 5 is a diagram showing, in

15 contradistinction, the processing procedures of the VOD function mode and videophone function mode.

Firstly, the processing procedure of VOD function mode will be described. In Fig. 5, suppose that the videophone function-added TV receiver 1 is now in the power-off state. The power button 7a (Fig. 4) of the remote control 7 is manually operated, causing the TV receiver 1 to be set in the power-on state (at item

No. 1). This operation is not necessary when the TV receiver has already been set in the power-on state.

20

25 Next, when the "VOD" button 7c of remote control 7 is pressed, the processor 12 detects this button

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operation and gets the HTML browser 13 started (at item #2).

The processor 12 also issues and sends a request for contents to the VOD server 21 (Fig. 3) via the network 5 I/F 15 and network 6 in the way stated above. In responding thereto, list information of the titles of VOD contents available from this VOD server 21 are provided, as the information for an operation screen or "window," to the videophone function-added TV receiver 1 via the

- 10 network 6 and network I/F 15. At the videophone functionadded TV receiver 1, this list information is supplied to the HTML browser 13 so that a menu (list) window of such VOD contents is prepared and displayed on the display screen 2 of display panel 8 as an operation window. When
- 15 the user selects and determines from this menu window his or her desired title of VOD contents through manual operations of the cross-like layout of arrow buttons 7i and "Enter" button 7j (at item #3), the processor 12 sends information as to this selection and decision to the VOD
- 20 server 21 for requesting download of the selected VOD contents. In response thereto, the VOD server 21 performs checking of the playback right of this user. If this check is completed successfully, accounting/billing processing against the VOD contents is performed. Then, a
- 25 notice of allowance is issued regarding the provision of the VOD contents to the videophone function-added TV

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receiver 1, followed by startup of download of the VOD contents (at item #4 in Fig. 5).

Upon receipt of this notice of allowance at the videophone function-added TV receiver 1, the processor 12 5 sets the decoder 11 in the VOD-use function mode and then causes an operation in this mode to get started. This results in the VOD function mode being set up so that the VOD contents to be downloaded from the VOD server 21 are supplied from the network I/F 15 to the decoder 11. Then, 10 a decoded moving-picture/still-image signal is supplied to the display panel 8, and simultaneously, a decoded audio

signal is fed to the speakers 3, resulting in the VOD contents being displayed and played back (at item #5).

When the user depresses the "Stop" button 7n of

15 the remote control 7 such as due to completion of the playback of the VOD contents, the decoder 11's VOD-use decode function execution state is forced to go off and then switched to the TV program-use decode function execution state. Simultaneously, the processor 12 renders 20 the HTML browser 13 inoperative (at item #6).

With this procedure, the VOD function mode comes to an end, causing the videophone function-added TV receiver 1 to be set in the TV broadcast program viewing function mode (item #7).

25 An explanation will next be given of the processing procedure in the videophone function mode.

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Now, suppose in Fig. 5 that the videophone function-added TV receiver 1 is in the power-off state. By manually operating the power button 7a (Fig. 4) of remote control 7, the TV receiver 1 is set in the power-on state (at item #1). This operation is unnecessary when the TV receiver has already been set in the power-on state.

Then, when the "Phone" button 7d of remote control 7 is depressed, the processor 12 detects it and renders the HTML browser 13 operative (item #2).

In response to the startup of the HTML browser 13, a list window of registered phone numbers is prepared from the phone number data being stored in a memory and supplied to the display panel 8 for visual display on the display screen 2. From this phone number list window, the 15 phone number of a person with whom the user wants to have a chat over the videophone is selected and determined through manual operations of the cross-like arrow buttons 7i and "Enter" button 7j (at item #3).

Upon determination of the phone number of such 20 call destination, the processor 12 performs call request to the call destination—in this case, the other-side videophone function-added TV receiver 1' in Fig. 3—via the network I/F 15 and network 6 and, at the same time, reads a calling message window data from the memory for

25 letting it be displayed on the display screen 2 and also renders the camera 4, microphone 5 and encoder 18

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5

operative under control of the processor 12 (item #4).

Upon receipt of a reply from the other-side videophone function-added TV receiver 1' at the network I/F 15 via the network 6, such as the Internet, the

- 5 processor 12 switches the operation mode of the decoder 11 to a state capable of executing the videophone-use decode function and then causes such operation to start. Whereby, a video telephone signal from the self-side apparatus (i.e., videophone function-added TV receiver 1),
- 10 which signal is output from the encoder 18, is sent from the network I/F 15 via the network 6 to the other-side videophone function-added TV receiver 1' whereas a videophone signal from the other-side videophone functionadded TV receiver 1' is received by the network I/F 15 via
- 15 network 6 and decoded by the decoder 11, resulting in a video signal being supplied to the display panel 8 and an audio signal being fed to the speakers 3. In this way, videophone telecommunication is performed between the self-apparatus (i.e., videophone function-added TV
- 20 receiver 1) and the other-side videophone function-added TV receiver 1' (at item #5).

After completion of the videophone call, when the user depresses the "Stop" button 7n of the remote control 7, the processor 12 renders the decoder 11 and

25 HTML browser 13 inoperative. As the decoder 11 goes off, the processor 12 renders the camera 4 and microphone 5

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plus encoder 18 inoperative (at item #6). Thus, the video phone function mode is terminated (item #7).

In the TV program-use decode function mode in which the videophone function-added TV receiver 1 receives 5 a digital broadcast program, when the "Phone" button 7d of remote control 7 is pressed causing it to be switched to this videophone-use decode function mode, the processor 12 is responsive to completion of a videophone call by manual operation of the "Stop" button 7n of remote control 7, for

- 10 providing control so that the decoder 11 changes its operation mode from the videophone-use decode function execution mode to the state for execution of the TV program-use decode function and then returns to the digital broadcast program reception state. In this case
- 15 also, the decoder 11's videophone-use decode function execution is stopped; so, the processor 12 renders the camera 4 and microphone 5 plus encoder 18 inoperative.

In this way, in case the videophone functionadded TV receiver 1 is in the TV broadcast program viewing 20 function mode, when the function of the decoder 11 is switched from the TV program-use decode function to the videophone-use decode function in response to the user's manual operation of the "Phone" button 7d of remote control 7, the processor 12 may be arranged to render the

25 storage unit 17 operative and permit the presently received digital broadcast program signal to be received

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continuously while letting the storage unit 17 continue videorecording until this digital broadcast program signal reception is ended. With such the arrangement, it is possible for the user to enjoy later the remaining part of a digital broadcast program that s/he failed to watch due to arrival of the incoming videophone call.

Fig. 6 is a diagram showing one example of incoming telephone call processing in the case where there is a call-in of the TV phone function-added TV receiver 1.

- In Fig. 6, in case there is an incoming phone call from the other-side videophone function-added TV receiver 1', the inbound call detector 14 detects this incall and notifies it to the processor 12. Upon receipt of this in-call notice, the processor 12 performs a control operation as will be described below in accordance with a present state of the videophone function-added TV receiver 1 and sets the videophone function-added TV receiver 1 in the videophone function mode. Below is an explanation of
- 20 to a present state of the videophone function-added TV receiver 1.

the incoming call reception processing in a way pursuant

(1) Power Off: This is a case where the videophone function-added TV receiver 1 is the power off state when there is an incoming telephone call from the

25 other-side videophone function-added TV receiver 1'. In this case, the processor 12 receives an inbound call

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arrival notice from the inbound call detector 14 and determines whether the power is on or off. If the TV receiver 1 is in the off state, the power is turned on (automatic power-on).

- 5 In this case, the processor 12 turns the power on and judges the in-call notice is equivalent to that issued when the "Phone" button 7d of the remote control 7 is manually operated and then executes the "Phone Processing" shown in Fig. 5 from the item #2 thereof
- 10 (phone processing). Then, after video/voice-based telecommunication is completed in response to a manual operation of either the "Stop" button 7n of the remote control 7 or a "Stop" button 7n' of a wireless remote control device 7' of the other-side videophone function-
- 15 added TV receiver 1', if no videophone signal is received within a predetermined length of time period, the processor 12 determines that the videophone function mode is ended and then deactivates the videophone-use decode function of the decoder 11 and, at the same time, renders 20 the camera 4 and microphone 5 plus encoder 18 inoperative
- at the item #6 of the "Phone Processing" shown in Fig. 5.

In this case, the decoder 11 stops its operation of the videophone-use decode function and, subsequently, is set in a state that the TV program-use decode function 25 is made active—in other words, its function is switched from the videophone-use decode function to the TV program-

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IPR2020-00200 Apple Inc. EX1002 Page 182 use decode function, resulting in the decoder 11 being changed into the TV program-use decode function mode for reception of a digital broadcast program (TV watching).

- In this way, when there is an incoming 5 videophone call from the other-side videophone functionadded TV receiver 1' while the videophone function-added TV receiver 1 is in the power off state, this videophone function-added TV receiver 1 is automatically set in the power-on state, causing it to be set in the videophone
- 10 function mode to thereby establish the state enabling the user to talk with a calling party over the videophone. Thereafter, when the phone call is finished, the decoder 11 is switched from the videophone-use decode function to the TV program-use decode function, resulting in transfer
- 15 to the TV program viewing function mode for letting the user watch his or her preferred digital broadcast program received.

(2) During TV Watching: This is a case where there is an incoming telephone call from the other-side 20 videophone function-added TV receiver 1' while the videophone function-added TV receiver 1 is presently in the videophone function mode. In this case, the processor 12 receives an inbound call notice from the inbound call detector 14 and, at the same time, controls the storage

25 unit 17 so that a digital broadcast signal being received is sequentially stored in this storage unit 17 (automatic

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videorecording start).

Simultaneously, the processor 12 renders the camera 4 and microphone 5 plus encoder 18 operative as has been explained using Fig. 5 and switches the function of decoder 11 from the TV program-use decode function to the videorecording-use decode function. As a result, video telecommunication with the other-side videophone functionadded TV receiver 1' is performed (phone processing).

- After completion of the phone call by manual operation of the "Stop" button 7n of the remote control 7 or the "Stop" button 7n' of remote control 7' of the other-side videophone function-added TV receiver 1', when any videophone signal is not received within a prespecified length of time period, the processor 12
- 15 determines that the videophone function mode is ended and thus deactivates the videophone-use decode function of the decoder 11 and, at the same time, renders the camera 4 and microphone 5 plus encoder 18 inoperative such as at the item #6 in the "Phone Processing" shown in Fig. 5.
- 20 In this case, the decoder 11 halts the videophone-use decode function in the way stated supra, resulting in activation of the TV program-use decode function—that is, the videophone-use decode function is switched to the TV program-use decode function. Then, the
- 25 processor 12 controls the storage unit 17 so that playback of the received digital broadcast program signal gets

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started from its videorecording start part after the beginning of the above-stated phone call. This reproduced digital broadcast program signal is supplied to the decoder 11 and decoded thereby and then supplied to the 5 display panel 8 and speakers 3, thereby enabling the user to enjoy it from the part which was interrupted by the above-noted phone call session (automatic playback start).

Note here that even when such automatic playback of the contents stored in the storage unit 17 is performed 10 in this way, it sometimes happens that the digital broadcast program being presently received does not come to an end. If this is the case, the videorecording of this broadcast program signal is continued without interruption. The end of the digital broadcast program is 15 acquirable from TV program guide information or else.

(3) During VOD Contents Watching: This is a case where a telephone call arrives from the other-side videophone function-added TV receiver 1' at the videophone function-added TV receiver 1 that is set in the VOD

20 function mode. In this case, the processor 12 is operatively responsive to receipt of an inbound call notice from the inbound call detector 14, for pausing an operation of the VOD server 21 (automatic pause).

Then, as explained in Fig. 5, the processor 12 25 renders the camera 4 and microphone 5 plus encoder 18 operative and switches the function of decoder 11 from the

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VOD-use decode function to the videophone-use decode function. This permits execution of a telephone call with the other-side videophone function-added TV receiver 1' (phone processing).

- 5 After completion of the phone call by depression of the "Stop" button 7n of the remote control 7 or the "Stop" button 7n' of remote control 7' of the other-side videophone function-added TV receiver 1', when no videophone signal is received within a prespecified length 10 of time period, the processor 12 judges that the TV broadcast program viewing function mode is ended and thus
- deactivates the videophone-use decode function of the decoder 11 and, at the same time, renders the camera 4 and microphone 5 plus encoder 18 inoperative such as at the 15 item #6 in the "Phone Processing" shown in Fig. 5.

In this case, the decoder 11 stops the videophone-use decode function in the above-stated way, resulting in reactivation of the VOD-use decode function--that is, the videophone-use decode function is switched to

- 20 the VOD-use decode function. Then, the processor 12 restarts the reception of the download contents from VOD server 21. This received signal indicative of VOD contents is supplied to the decoder 11 and decoded thereby and then supplied to the display panel 8 and speakers 3,
- 25 thereby enabling the user to enjoy it from the part which was interrupted by the above-noted videophone call session

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(pause cancel).

(4) Others: Other modes includes, for example, an operation mode which is responsive to an image pickup instruction operation using the remote control 7, for 5 activating the camera 4 and microphone 5 and for letting the encoder 18 perform the videorecording-use encode function to thereby cause the encoder 18 to encode a video signal obtained from the camera 4 and an audio signal from the microphone 5. When it is set in an image-

- 10 capturing/storage mode for causing the storage unit 17 to store therein an image pickup signal thus obtained thereby, in case there is an incoming call from the otherside videophone function-added TV receiver 1', the camera 4 and microphone 5 plus encoder 18 are held in the
- 15 activation state under control of the processor 12 and, simultaneously, the videorecording-use encode function is switched to the videophone-use encode function while deactivating the storage operation of the storage unit 17 (present state saving).

20 Then, as previously stated, the videophone function-added TV receiver 1 is set in the videophone function mode under control of the processor 12, thereby permitting telecommunication with the other-side videophone function-added TV receiver 1' (phone

25 processing).

Upon completion of the phone call, the

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videophone function mode is cancelled under control of the processor 12 in the way stated supra. Simultaneously, while retaining the camera 4 and microphone 5 in the activated state, the function of encoder 18 is switched

- 5 from the videophone-use encode function to the videorecording-use encode function, followed by causing the videorecording operation of the storage unit 17 to restart. This leads to restart of the operation for storage in the storage unit 17 while the encoder 18
- 10 encodes the video signal from camera 4 and the audio signal from microphone 5 (recovery to saved state).

In this way, when there is a telephone call while the videophone function-added TV receiver 1 is in the power-off state, videophone telecommunication becomes

- 15 enabled. Upon completion of the call, the TV receiver is automatically switched to the state that permits the user to watch a digital broadcast program received. When the videophone function-added TV receiver 1 is in other modes, the TV receiver becomes in the videophone
- 20 telecommunication capable state in quick response to such call-in. After completion of this videophone call, the TV receiver returns to its original state in the previous mode just before reception of the incoming call, followed by restart of the previous operation. Accordingly, after
- 25 the phone call session, it is possible for the user to continuously use the videophone function-added TV receiver

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1 in its original state without having to manually operate the remote control 7 for causing it to recover to the state before the call-in.

- It should be noted here that after the phone 5 call is ended in response to depression of the "Stop" button 7n' of the other-side videophone function-added TV receiver 1', if no videophone signal is received within a predetermined length of time period, the processor 12 determines that the videophone function mode is ended.
- 10 That is, the processor 12 continues to monitor arrival of a videophone signal from the network I/F 15 in the videophone function mode. When such state is continued for the predetermined length of time since the failure to receive any signal, it judges that the videophone function 15 mode is completed. The same goes with other videophone
- function-added TV receivers of distant parties, such as the other-side videophone function-added TV receiver 1'.

In this way, whenever an incoming phone call is received from a distant party at the other end of a line, 20 the TV receiver 1 is automatically set in the videophone function mode without requiring the user to perform manual operations. When any videophone signal is no longer received, a decision is made to regard it as completion of the videophone function mode so that the videophone

25 function mode is automatically ended without requiring any user's manual operations.

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Figs. 7A and 7B are flowcharts showing practical examples of forced start/stop control operations of the decoder and encoder, which are executed by respective processors upon start/end of a telephone call between the 5 videophone function-added TV receivers 1 and 1' shown in Fig. 3.

It is noted that although the processing procedure in the videophone function mode shown in Fig. 5 and the incoming phone call handling processing shown in

10 Fig. 6 indicate processing operations in the videophone function-added TV receivers 1 and 1', respectively, Figs. 7A-7B are diagrams showing flows of processing operations between the videophone function-added TV receivers 1 and 1' in phone call starting and ending 15 events.

Also note that while the explanation using Figs. 7A-7B is under an assumption that each of the videophone function-added TV receivers 1 and 1' is arranged to have the structure and configuration shown in

20 Figs. 1-2, equivalent elements of the other-side videophone function-added TV receiver 1' are denoted by similar reference numerals with an apostrophe (') added thereto, such as decoder 11', processor 12', etc.

Fig. 7A shows forced startup control operations 25 of the decoders 11 and 11' and encoders 13 and 13' of the videophone function-added TV receivers 1 and 1' in a phone

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call starting event, wherein an operation of the self-side videophone function-added TV receiver 1 of Fig. 3 is shown on the left side of Fig. 7A whereas an operation of the other-side videophone function-added TV receiver 1' of Fig. 3 is shown on the right side of Fig. 7A.

When the "Phone" button 7d of the remote control 7 for the videophone function-added TV receiver 1 is manually operated (at step 700), the HTML browser 13 gets started (step 701). The processor 12 sends an instruction 10 from the network I/F 15 via network 6 to the other-side videophone function-added TV receiver 1' for rendering its decoder 11' operative (step 702). In the other-side videophone function-added TV receiver 1', this instruction

15 instruction, the processor 12' renders the decoder 11' operative, thereby enabling execution of its videophoneuse decode function (step 800). When the decoder 11' is activated in a mode for performing the videophone-use decode function, the processor 12' notifies, from the

is received at the network I/F 15'. Based on this

20 network I/F 15' via network 6, the self-side videophone function-added TV receiver 1 of the fact that the decoder 11' started up in the videophone-use decode function mode (step 801).

Upon receipt of this notice, the self-side 25 videophone function-added TV receiver 1 operates so that its processor 12 renders the encoder 18 operative in the

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videophone-use encode function mode (at step 703 in Fig. 7A). Then, it activates the decoder 11 in the videophone-use decode function mode (step 704). Next, the processor 12 sends an instruction from the network I/F 15

- 5 via network 6 to the other-side videophone function-added TV receiver 1' for causing its encoder 18' to start up (step 705). In the other-side videophone function-added TV receiver 1', this instruction is received by the from the network I/F 15' and, in responding thereto, the
- 10 processor 12' renders the encoder 18' operative to thereby enable execution of the videophone-use encode function (step 802). When the encoder 18' is activated in the videophone-use encode function mode, the processor 12' notifies, from the network I/F 15' via network 6, the
- 15 self-side videophone function-added TV receiver 1 of the fact that the encoder 18' started up in the videophone-use encode function mode (step 803). This results in establishment of a state enabling videophone communication between the self-side videophone function-added TV
- 20 receiver 1 and the other-side videophone function-added TV receiver 1' (step 706).

In the case where videophone communication is started between the self-side videophone function-added TV receiver 1 and the other-side videophone function-added TV

25 receiver 1' in this way, when an instruction for phone call startup is sent through manual operations of the

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remote control 7 to one of the videophone function-added TV receivers, i.e., self-side videophone function-added TV receiver 1, several steps of operations are performed which follow: firstly, the decoder 11' is automatically

- 5 rendered operative in the other-side videophone functionadded TV receiver 1'; then, the decoder 11 and encoder 18 of the self-side videophone function-added TV receiver 1 are automatically activated in this order of sequence, thereby quickly enabling execution of a phone call from
- 10 the self-side videophone function-added TV receiver 1 on the calling party side to the other-side videophone function-added TV receiver 1' on the called party side; next, the encoder 18' of other-side videophone functionadded TV receiver 1' is activated to thereby enable
- 15 execution of the phone call from the other-side videophone function-added TV receiver 1', which receives the call from the self-side videophone function-added TV receiver 1 and responds thereto, to the self-side videophone function-added TV receiver 1 whereby the videophone call
- 20 handing is smoothly performed since the "Phone" button 7d of the remote control 7 was depressed.

Fig. 7B shows forced stop control operations of the decoders 11 and 11' and encoders 13 and 13' of the videophone function-added TV receivers 1 and 1' in a

25 videophone call ending event, wherein an operation of the self-side videophone function-added TV receiver 1 of

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Fig. 3 is shown on the left side of Fig. 7B whereas an operation of the other-side videophone function-added TV receiver 1' of Fig. 3 is shown on the right side of Fig. 7B.

- 5 When the "Stop" button 7n of the remote control 7 for the videophone function-added TV receiver 1 is depressed (at step 710), the processor 12 performs deactivation processing of the decoder 11 (step 711). In this case, the decoder deactivation processing may be the 10 one that actually renders the decoder 11 inoperative as has been described using Figs. 5-6 or, alternatively, may be the one that causes decoder 11 to switch from the videophone-use decode function to the VOD-use decode function.
- 15 Then, the processor 12 sends a stop instruction notice from the network I/F 15 via network 6 to the otherside videophone function-added TV receiver 1' (at step 712 in Fig. 7B) and performs halt processing of the encoder 18 (step 713) whereby the phone call at the self-side
- 20 videophone function-added TV receiver 1 is ended (step 716).

On the other hand, the halt(stop) instruction notice from the processor 12 to the other-side videophone function-added TV receiver 1' (at step 712) is the one

25 that performs deactivation instruction of the decoder 11' in the other-side videophone function-added TV receiver 1'

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(step 714) and deactivation instruction of the encoder 18' therein (step 715). In the other-side videophone function-added TV receiver 1', when the processor 12' receives this instruction for stopping the decoder 11',

- 5 deactivation processing of decoder 11' is performed (step 810). When the processor 12' receives the instruction for stopping the encoder 18', deactivation processing of encoder 18' is performed (step 811). This results in the videophone call being completed.
- 10 Additionally, when the communication is ended at the other-side videophone function-added TV receiver 1' also, the decoder 11' is deactivated in a similar way to the case of the self-side videophone function-added TV receiver 1 in some cases and the processing for switching 15 from the videophone-use decode function to any one of the TV program-use decode function or VOD-use decode function is performed in other cases, resulting in the encoder 18' being rendered inoperative.

In this way, by the user's manual operation of 20 the "Stop" button 7n of the remote control 7 on the side of self-side videophone function-added TV receiver 1, the following processing operations are performed: first, the decoder 11 of self-side in videophone function-added TV receiver 1 is deactivated, thereby preventing on-screen

25 display and playback of video images and voice sounds of the phone call from the other-side videophone function-

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added TV receiver 1'; then, the encoder 18 is deactivated so that the video/voice information from the self-side videophone function-added TV receiver 1 is no longer displayed at the other-side videophone function-added TV

- 5 receiver 1' in an automated way. Thus, it is possible to prevent unwanted visualization of an image on the distant party side even after the phone call was ended and also void undesired displaying of an image on the self side on the screen on the distant party side after completion of
- 10 the phone call. In addition, as the technique is employed for sending the stop instructions of the decoder 11' and encoder 18' to the other-side videophone function-added TV receiver 1' from the self-side videophone function-added TV receiver 1, the other-side videophone function-added TV
- 15 receiver 1' which receives the phone call from the selfside videophone function-added TV receiver 1 is such that the decoder 11' and encoder 18' are deactivated without requiring call ending operations using the remote control 7'. This makes it unnecessary for the user to perform
- 20 manual operations for the call completion and thus avoids risks otherwise occurring due to the user's forgetting to perform such manual operations.

Note that although this practical example is arranged so that in the case of completion of the 25 videophone function mode the decoder 11' and encoder 18' in the other-side videophone function-added TV receiver 1'

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are deactivated in response to receipt of the stop command from the self-side videophone function-added TV receiver 1 (at steps 714 and 715 in Fig. 7B), this may be modified so that the self-side videophone function-added TV receiver 1

- 5 is configured to send a command for deactivation of the decoder 11' to the other-side videophone function-added TV receiver 1' whereas this other-side TV receiver 1' is arranged so that its processor 12' detects deactivation of the decoder 11' and then renders the encoder 18'
- 10 inoperative.

Alternatively, although the decoder 11, 11' halts the videophone-use decode function when no videophone signals are supplied thereto, the processor 12, 12' may be designed to detect such videophone-use decode

- 15 function deactivation of decoder 11, 11' and then renders the encoder 18, 18' inoperative. In this case, the videophone-use decode function of decoder 11 is deactivated in response to completion of a videophone call, e.g., a manual operation of the "Stop" button 7n of
- 20 the remote control 7 on the videophone function-added TV receiver 1 side; in responding thereto, the encoder 18 also is rendered inoperative, resulting in no videophone signal being sent from the videophone function-added TV receiver 1 to the other-side videophone function-added TV
- 25 receiver 1'. Then, the decoder 11' in the other-side videophone function-added TV receiver 1' halts its

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videophone-use decode function due to the fact that no videophone signals are sent from the videophone functionadded TV receiver 1; in response thereto, the processor 12' renders the encoder 18' inoperative. With such the arrangement, the videophone function mode is automatically quitted in the other-side videophone function-added TV receiver 1' even when no manual operations are performed for completion of this mode. In case the above-noted halt

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operation is done at the other-side videophone function-10 added TV receiver 1' also, similar mode deactivation is automatically performed at the videophone function-added TV receiver 1.

Still alternatively, although the encoder 18, 18' of videophone function-added TV receiver 1, 1' for 15 performing videophone communication halts the videophoneuse encode function in response to deactivation of the videophone-use decode function of decoder 11, 11' of the distant party's videophone function-added TV receiver 1', 1 that provides a videophone signal, the processor 12, 12'

- 20 may be arranged to detect such videophone-use encode function deactivation of encoder 18, 18' and then halts the videophone-use decode function of decoder 11, 11'. In this case, when the videophone-use decode function of decoder 11 is halted in response to a manual operation of
- 25 the "Stop" button 7n of the remote control 7 on the videophone function-added TV receiver 1 side as an example

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after having ended the videophone communication, the encoder 18' on the other-side videophone function-added TV receiver 1' side is rendered inoperative; upon detection of this deactivation, the processor 12' halts the

- 5 videophone-use decode function of the decoder 11'. This results in the videophone function mode being automatically quitted at the other-side videophone function-added TV receiver 1' without requiring the user to manually perform a videophone function mode completion
- 10 operation. In case a videophone call completion operation is done using the remote control 7' on the other-side videophone function-added TV receiver 1' side also, the videophone function mode is automatically ended at the self-side videophone function-added TV receiver 1.
- 15 Fig. 8 is a diagram showing a perspective view of exterior appearance of a TV receiver set with additional videophone functions in accordance with a second embodiment, wherein reference numeral 1a designates an apparatus main body, numeral 30 denotes a video camera, 20 and 31 indicates a connection cable. Constituent elements corresponding to those shown in Fig. 1 are indicated by the same reference numerals, and a detailed explanation thereof is eliminated herein.

The second embodiment shown in Fig. 8 is 25 arranged so that the video camera 30 is detachably connected by the connection cable 31 to the apparatus main

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body 1a of videophone function-added TV receiver 1. This video camera 30 is independently usable when disconnected from the apparatus main body 1a of videophone functionadded TV receiver 1 and is also usable as a videophone equipment together with the apparatus main body 1a when linked by the connection cable 31 to the apparatus main body 1a of videophone function-added TV receiver 1.

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In case the video camera 30 is coupled to the apparatus main body 1a by the connection cable 31 for use 10 as part of the videophone equipment, this video camera is put at a lower location in front of the display screen 2 of apparatus main body 1a. In view of this, a couple of built-in loudspeakers 3 are mounted at specific positions above the display screen 2 in order to minimize unwanted 15 mixture of audio sounds from a microphone (not shown) of the video camera 30 into these speakers 3.

It is noted that the apparatus main body 1a and the video camera 30 may be separately purchasable products or, alternatively, may be a set of products bundled together at the time of purchase.

Fig. 9 is a block diagram showing a practical example of circuit configuration of the second embodiment of the TV phone function-added TV receiver shown in Fig. 8, which includes a camera 32, microphone 33, encoder 34, storage device 35, decoder 36, and camera connection

25 34, storage device 35, decoder 36, and camera connection interface (I/F) 37. Components corresponding to those

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shown in Figs. 2 and 8 are designated by the same reference numerals, and a detailed explanation thereof is omitted herein.

As shown in Fig. 9, the video camera 30 has in 5 its housing the camera 32, microphone 33, encoder 34, storage device 35 and decoder 36.

The encoder 34 has a videophone-use encode function and videorecording-use decode function. In a case where a videophone call is done by connecting the

- 10 video camera 30 via connection cable 31 to apparatus main body 1a, the encoder 34 operates in a mode of the videophone-use encode function. In case the video camera 30 is disconnected from the apparatus main body 1a for independent use, the video camera 30 is set in a function
- 15 mode (imaging/recording function mode) for storing in the storage device 35 a video signal from the TV built-in camera 32 and an audio signal from the microphone 33. At this time, the encoder 34 executes the encode function for the recording, that is, the videorecording-use decode
- 20 function.

The decoder 36 of video camera 30 is the one that decodes a playback signal from the storage device 35. When the video camera 30 is coupled via the connection cable 31 to the apparatus main body 1a, the 25 encoder 34 of video camera 30 is connected by this cable 31 to the camera link I/F 37, and the decoder 36 is

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connected to the display panel 8. Although not specifically illustrated, the connection cable 31 has therein a control signal line(s) for supplying control signals that control respective parts of the video camera 30 from the processor 12 to the video camera 30 and a

power supply line for feeding electrical power from the apparatus main body 1a to video camera 30.

5

When the apparatus main body 1a is in the poweron state, a connection state notifying signal which 10 indicates whether the video camera 30 is connected or not is supplied to the processor 12 from the camera link I/F 37 that is provided within the apparatus main body 1a for connection of the video camera 30.

When the video camera 30 is connected to the 15 apparatus main body 1a while the apparatus main body 1a is set in the power-on state by a manual operation of the "Power" button 7a of the remote control 7 or, alternatively, when the apparatus main body 1a, which has been turned off at the time point that the video camera 30 20 is connected to the apparatus main body 1a, is turned on

by depression of the "Power" button 7a of remote control 7, a connection state notice signal indicative of connection of the video camera 30 is supplied from the camera link I/F 37 to processor 12.

25 The video camera 30 has its processor and an operation unit provided with several operation buttons,

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such as a power button, videorecording button, playback button, stop button and others, although these are not illustrated. The video camera 30 also has a built-in power supply unit; so, this camera is usable for video image capturing purposes even after disconnection from the apparatus main body 1a of videophone function-added TV

receiver 1. The video camera 30 further includes a monitor display and loudspeaker(s), although not specifically depicted.

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- 10 When the video camera 30 is used by disconnecting it from the apparatus main body 1a, the encoder 34 is set in a cumulative videorecording mode for execution of the videorecording-use decode function, which is an initial or "default" function. More specifically,
- 15 when using the video camera 30 in the cumulative videorecording mode, power-on of the video camera 30 results in the camera 32 starting an image pickup operation to generate a video signal, which is supplied to the monitor so that a presently captured state is
- 20 displayed on its screen. Simultaneously, the encoder 34 is set in a state for execution of the videorecording-use encode function. Then, when the record button of the video camera 30 is depressed, a video signal from the camera 32 and an audio signal from the microphone 33 are
- 25 encoded by the encoder 34 and cumulatively recorded in the storage device 35 as a video shot signal. When the stop

IPR2020-00200 Apple Inc. EX1002 Page 203 button is pressed, this cumulative videorecording operation is halted. When the playback button is pressed, the video shot signal being stored in the storage unit 35 is played back and displayed on the monitor screen of the video camera 30.

When the "Power" button 7a (Fig. 4) of the wireless remote control 7 is depressed after having connected the video camera 30 by connection cable 31 to apparatus main body 1a of videophone function-added TV

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- 10 receiver 1, the apparatus main body 1a is turned on; simultaneously, the video camera 30 also is rendered operative due to the fact that a power supply voltage is supplied thereto from the apparatus main body 1a through connection cable 31.
- In the power-on state of the apparatus main body la, when the "Play" button 7m₂ (Fig. 4) of remote control 7 is depressed, the processor 12 sends a playback control signal to the processor of the video camera 30 whereby the video camera 30 operates to read the video signal being
- 20 stored in the storage device 35 and then supply it to the display panel 8 and speakers 3 for playback required. In case a digital broadcast program signal being stored in the storage device 17 is played back, the "TV" button 7b (Fig. 4) of remote control 7 is pressed to set the
- 25 videophone function-added TV receiver 1 in the TV broadcast program viewing function mode; thereafter, the

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"Play" button $7m_2$ of remote control 7 is manually operated.

In the state that the video camera 30 is coupled to the apparatus main body 1a, when "Phone" button 7d of 5 the remote control 7 is depressed, the apparatus main body la is such that the decoder 11 and HTML browser 13 get started in a similar way to the above-stated first embodiment so that the decoder 11 is set in the state for execution of the videophone-use decode function. When the 10 video camera 30 is turned on due to power feed, the

encoder 34 is set in a state of live output mode for execution of the videophone-use encode function under control of the processor 12. Whereby, the videophone function-added TV receiver 1 is set in the videophone function mode.

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This live output mode is the mode for supplying an output signal (video shot signal) of the encoder 34 to the apparatus main body 1a while minimizing the length of its transmission time. In this mode, a video signal from the camera 32 and audio signal from microphone 33 are encoded by the encoder 34 and directly supplied to the camera link I/F 37 of apparatus main body 1a without

passing through the storage device 35.

In the videophone function mode, the video 25 signal from the camera 32 and audio signal from microphone 33 are encoded by the encoder 34 that is set in the

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videophone-use encode function mode and then supplied to the apparatus main body 1a as a videophone signal. This signal is received by the camera link I/F 37 in apparatus main body 1a and then supplied to network I/F 15 and

- 5 thereafter sent via network 6 to a videophone functionadded TV receiver set 1' of a distant party at the other end of a line—say, "other-side" videophone function-added TV receiver. A videophone signal from this other-side videophone function-added TV receiver 1' is received by
- 10 the network I/F 15 and decoded by the decoder 11 and then fed to the display panel 8 and speakers 3 in a similar way to the first embodiment stated supra.

In case there is an incoming call from the other-side videophone function-added TV receiver 1' also, 15 a similar operation to that of the first embodiment is performed although the second embodiment is such that the video camera 30 is rendered operative under control of the processor 12, thereby setting its encoder 34 in the live output mode for execution of the videophone-use encode 20 function.

In case the videophone function mode is terminated, the "Stop" button 7n of remote control 7 is depressed in a similar way to the above-stated first embodiment. Whereby, the processor 12 halts the HTML

25 browser 13 and, at the same time, disables the videophoneuse decode function of decoder 11 for switching it to

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another decode function. In addition, the processor 12 turns the video camera 30 off to stop the operation of video camera 30.

Regarding the VOD function mode of the 5 videophone function-added TV receiver 1, this is similar to that of the first embodiment stated supra.

Fig. 10 is a flowchart showing the connect control that is performed by the processor 12 in the videophone function mode of the video camera 30 shown in Fig. 9.

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As shown herein, when the apparatus main body 1a of videophone function-added TV receiver 1 is powered on by a manual operation of the "Power" button 7a of the remote control 7 (at step 1000), verification is made to

- 15 determine whether the video camera 30 is connected to this apparatus main body 1a (step 1001). When it is detected using a connection state notice signal from the camera link I/F 37 that the video camera 30 is not yet coupled to the apparatus main body 1a or, alternatively, is
- 20 disconnected therefrom (step S1002), the processor 12 disables the use of the videophone function mode and causes a message of this content to be displayed on the display screen 2 of display panel 8 (step 1004). Alternatively, when it is detected based on the connection
- 25 state notice signal that the video camera 30 is connected to the apparatus main body 1a or detected that the

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disconnected video camera 30 is now coupled thereto (step 1002), the processor 12 enables the power supply voltage to be fed to the video camera 30 and forces its encoder 34 to go into the videophone-use encode function executable

- 5 mode (i.e., enables it to operate in the live output mode) (step 1003), thereby setting the videophone function-added TV receiver 1 in a state that it is usable in the videophone function mode (step 1005). In this state, when the "Phone" button 7d of the remote control 7 is manually
- 10 operated, or alternatively, when there is an incoming call from the other-side videophone function-added TV receiver 1', the videophone function mode is set up in the way stated previously, resulting in the TV receiver 1 becoming capable of making a videophone call with the other-side 15 videophone function-added TV receiver 1'.

Fig. 11 is a flowchart showing select control of an operation mode of the video camera 30 in Fig. 9.

As shown herein, when the video camera 30 is powered on (at step 1100), the built-in processor of video 20 camera 30 checks whether an instruction for setup of the videophone function mode is received from the apparatus

main body la of videophone function-added TV receiver 1 (step 1101).

As previously stated, the power-on of video 25 camera 30 at the step 1100 is performed by manual operation of the "Power" button at the operation unit of

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this video camera 30 when the video camera 30 is not connected to the apparatus main body 1a; when video camera 30 is connected to the apparatus main body 1a, the poweron is done in response to receipt of an instruction signal 5 from the processor 12 of apparatus main body 1a, which signal is generated in response to receipt of a videophone function mode setup instruction due to depression of the "Phone" button 7d of remote control 7.

- The checking of the videophone function mode 10 setup instruction from the apparatus main body 1a at the step 1101 is for verifying whether this instruction is sent from the processor 12 of apparatus main body 1a via the camera link I/F 37, and when such videophone function mode setup instruction is received from the remote control
- 15 7 to the videophone function-added TV receiver 1, the processor 12 outputs a videophone function mode setup instruction signal to the video camera 30 via camera link I/F 37, which signal is for causing video camera 30 to execute the live output.
- Then, in the video camera 30, when it is made sure by its processor as a result of the checking at the step 1101 that there is the videophone function mode setup instruction from the apparatus main body 1a (i.e., if YES at step 1102), this processor sets the operation mode of
- 25 encoder 34 to the live output mode for execution of the videophone-use encode function (step 1103).

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Alternatively, when it is affirmed that there is no such videophone function mode setup instruction from the apparatus main body 1a (i.e., if NO at step 1102), this case is any one of the following events: no videophone

- 5 function mode setup instruction is sent from the remote control 7 to videophone function-added TV receiver 1; and the video camera 30 is disconnected from apparatus main body 1a. If this is case, at the video camera 30, its processor sets the encoder 34 in the cumulative
- 10 videorecording mode for execution of the videorecordinguse encode function (step 1104).

In this way, in the video camera 30, whether the apparatus main body 1a side is in a phone call enable state or in an out-of-call state is recognized. In

15 accordance with this recognition result, the operation mode of encoder 34 is set up, followed by execution of compression processing (encoding) of moving-picture images on a per-image basis.

Although here the video camera 30 is arranged so 20 that a notice from the processor 12 which is issued due to setup of the apparatus main body 1a in the videophone function mode is used to recognize whether the apparatus main body 1a side is in the phone call enable state or in the call disable state, in view of the fact that when the

25 apparatus main body 1a and the video camera 30 are connected together by the connection cable 31 the

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connection state notice signal is supplied from the camera link I/F 37 to processor 12 to thereby recognize that the video camera 30 was linked to apparatus main body 1a, another arrangement is employable for causing the

- 5 processor 12 in such event to notify this state to the video camera 30 to thereby determine whether the apparatus main body 1a is presently set in the call enable state or call disable state and for setting the encoder 34 in the live output mode for execution of the videophone-use
- 10 encode function. With this arrangement, whenever the apparatus main body 1a is set in the videophone function mode, the video camera 30 is forced to quickly operate in the videophone function mode.
- The above-stated operations should not be 15 limited only to the video camera which is detachably connected to the apparatus main body 1a of videophone function-added TV receiver 1. For example, in case the videophone function-added TV receiver 1 of Fig. 9 is modified to internally contain the camera 32, microphone
- 20 33, encoder 34 and storage device 35 in the apparatus main body 1a, these camera 32, microphone 33, encoder 34 and storage device 35 may be arranged to perform the operations shown in Fig. 11, wherein the encoder 34 may be designed to go into the live output mode in the videophone
- 25 function mode and operate in the cumulative videorecording mode when the TV receiver operates in modes other than the

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videophone function mode.

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Examples of the connection cable 31 are the currently available standard video cables including, but not limited to, a high-definition multimedia interface (HDMI) signal cable and a digital video interface (DVI) signal cable.

This second embodiment also is the one that is similar in arrangement to the videophone function-added TV receiver 1 of the first embodiment shown in Fig. 2 when

- 10 looking at an entirety of videophone function-added TV receiver 1 (the camera 32, microphone 33 and encoder 34 in video camera 30 are equivalent respectively to the camera 4, microphone 5 and encoder 18 in Fig. 2). Its operation in each mode is the one that executes a corresponding one
- 15 of the operations shown in Figs. 5 to 7. Additionally, although the other-side videophone function-added TV receiver 1' is such that its decoder 11' and encoder 34' are rendered inoperative in responding to receipt of a deactivation instruction from the self-side videophone
- 20 function-added TV receiver 1 (at steps 714 and 715 in Fig. 7B), this TV receiver may be modified so that when the decoder 11' is halted in response to receipt of a deactivation instruction of such decoder 11' as sent from the self-side videophone function-added TV receiver 1, the
- 25 processor 12' detects this operation halt and then stops the encoder 34'.

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In addition, in view of the fact that the decoder 11, 11' stops the videophone-use decode function when no videophone signal is supplied thereto, the second embodiment may be arranged in a similar manner to the

- 5 first embodiment stated supra in a way which follows: upon completion of a videophone call, the videophone-use decode function of decoder 11 is deactivated by, for example, manual operation of the "Stop" button 7n of remote control 7 on the videophone function-added TV receiver 1 side;
- 10 then, the encoder 18 also is rendered inoperative subsequently, resulting in no videophone signal being sent from the videophone function-added TV receiver 1 to otherside videophone function-added TV receiver 1' whereby the decoder 11' deactivates the videophone-use decode
- 15 function; in responding thereto, the processor 12' renders the encoder 18' inoperative. Even in case the abovestated deactivation operation is done on the other-side videophone function-added TV receiver 1' side, similar mode deactivation is automatically performed on the

20 videophone function-added TV receiver 1 side.

Although the encoder 18, 18' of videophone function-added TV receiver 1, 1' that performs videophone communication is arranged to halt the videophone-use encode function in response to deactivation of the

25 videophone-use decode function of the decoder 11', 11 of its associative videophone function-added TV receiver 1',

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1, the decoder 11, 11' may be modified to halt the videophone-use decode function in response to deactivation of the videophone-use encode function of encoder 18, 18' as detected by the processor 12, 12'. In this case, upon

- 5 completion of a videophone call, when the videophone-use decode function of decoder 11 is halted by depression of the "Stop" button 7n of the remote control 7 on the videophone function-added TV receiver 1 side as an example, the encoder 18' of the other-side videophone
- 10 function-added TV receiver 1' is rendered inoperative; upon detection of this deactivation by the processor 12', the decoder 11' is caused to stop the videophone-use decode function. With this arrangement, the videophone function mode is automatically ended in the other-side
- 15 videophone function-added TV receiver 1' even when no videophone function mode completion operations are performed. In case the stop operation is done using the remote control 7' on the other-side videophone functionadded TV receiver 1' side also, the videophone function 20 mode is automatically ended in the self-side videophone

function-added TV receiver 1 in a similar way.

Fig. 12 is a block diagram showing a circuit configuration of a videophone function-added TV receiver set in accordance with a third embodiment, which includes

25 a decoder 38 and an echo canceller 39. Components corresponding to those shown in Fig. 1 are denoted by the

same reference numerals, and detailed explanations thereof are eliminated herein.

This third embodiment of Fig. 12 is different from the videophone function-added TV receiver 1 of the 5 first embodiment shown in Fig. 2 in that the decoder 11 has only the TV program-use decode function and thus is for exclusive use in the TV broadcast program viewing function mode and in that the decoder 38 is additionally provided, which is for use in the videophone function mode 10 and VOD function mode. This decoder 38 is connected to the network I/F 15. Also provided is the echo canceller 39 which removes or "cancels" an audio signal of a digital broadcast program signal of speakers 3 from an audio signal as output from microphone 5.

In the third embodiment also, it is possible by the above-stated operation of the wireless remote control 7 to individually set up any one of the TV broadcast program viewing function mode and videophone function mode and VOD function mode in a similar way to the first

20 embodiment shown in Fig. 2. When it is set in the TV broadcast program viewing function mode, the decoder 11 is rendered operative under control of the processor 12 whereby a digital broadcast program signal from broadcast tuner 10 is decoded by the decoder 11 so that its video

25 signal is supplied to the display panel 8 while letting an audio signal be fed to the speaker unit 3. In either the

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videophone function mode or the VOD function mode, the decoder 38 is set by the processor 12 in an operation mode for execution of either the videophone-use decode function or VOD-use decode function whereby any one of a videophone call signal from the other-side videophone function-added TV receiver 1' which is received by the network I/F 15 or

VOD contents is supplied to the decoder 38 and then decoded thereby (text information of VOD data is converted by HTML browser 13 into a video signal) so that its video 10 signal is supplied to the display panel 8 with an audio signal being fed to the speaker 3.

Additionally in the third embodiment, the digital broadcast program signal and any one of the videophone call signal and VOD contents are simultaneously

- 15 receivable and decodable in response to a manual operation of the remote control 7 to thereby enable these different video images to be displayed on the screen of the display panel 8—that is, these images are displayable on two separate windows on the display screen. The manual
- 20 operation of remote control 7 in this case is as follows. The remote control 7 with the arrangement shown in Fig. 4 has a button for displaying two windows on one screen, i.e., "Two-Window Display" button. For example, this "Two-Window Display" button is pushed when the TV
- 25 broadcast program viewing function mode is set up by depression of the "TV" button 7b; then, either the "Phone"

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button 7d or the "VOD" button 7c is pushed to thereby set up the two-window display mode so that two-window display is performed.

- In this two-window display mode, audio signals 5 that are output from the decoder 11 and decoder 38 are simultaneously supplied to the speakers 3 in response to the manual operation of a select button (not shown in Fig. 4) that is provided at the remote control 7.
- Incidentally, in the two-window display mode for 10 displaying both a received digital broadcast program and a videophone signal at a time, audio/voice sounds from the speakers 3 can be taken into the microphone 5 and thus undesirably mixed into a telephone voice signal being input to the microphone 5, although each speaker 3 is
- 15 spaced apart from the microphone 5 to have a certain degree of distance therefrom in a similar manner to the first embodiment shown in Fig. 1. In this case, a voice signal that is supplied to the speakers 3 contains an audio signal of the received digital broadcast program
- 20 signal from the decoder 11 so that a signal which is derived from audio components of the digital broadcast program is superimposed with an output audio signal of the microphone 5. When this signal is transmitted to the other-side videophone function-added TV receiver 1', a
- 25 distant party at the other end of a line becomes harder to catch the intended voice. In another case, the audio

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sounds of the digital broadcast program that is received by the videophone function-added TV receiver 1 is leaked into the presently linked other-side videophone functionadded TV receiver 1'. This poses problems as to privacy infringement and security impingement.

Fig. 13 is a diagram showing an exemplary twowindow display state of the third embodiment, wherein the speaker unit 3 consists of a right-side speaker 3R and left-side speaker 3L and wherein a digital broadcast

10 program display window 40 and a videophone-use window display 41 are simultaneously displayed on the display screen 2 on a side-by-side way. Components corresponding to those of Fig. 1 are indicated by the same reference numerals, and detailed explanations thereof are eliminated 15 herein.

In the case of the two-window display mode shown in Fig. 13, the digital broadcast program viewing window 40 is displayed on one side—here, the left-hand side whereas the videophone image window 41 which visualizes

- 20 the image of a calling or called person is displayed on the other side—here, the right-hand side. In this case, audio sounds A and B that are produced from the right-side speaker 3R and left-side speaker 3L of the speaker unit 3 provided in the self-side videophone function-added TV
- 25 receiver 1 are also picked up by the microphone 5, which is mounted in the display panel housing.

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Note here that although in this example the digital broadcast program viewing window 40 is displayed on the left side of the display screen 2 whereas the videophone image window 41 is displayed on the right side 5 thereof, the display positions of these windows may be laterally exchanged with each other. Additionally, these windows may be differed in size from each other. An example is that the digital broadcast program viewing window 40 is enlarged whereas the videophone image window 10 41 is made smaller.

To avoid the mixture or "invasion" of audio sounds of speakers 3R and 3L into the microphone 5, the third embodiment is arranged to have the echo canceller 30 as shown in Fig. 12. The voice signal sensed by the

- 15 microphone 5 is supplied to this echo canceller 39; simultaneously, the audio signal of the received digital broadcast program as output from the decoder 11 is supplied to the echo canceller 39. At this time, the echo canceller 39 performs cancel processing to thereby remove
- 20 from the output voice signal of the microphone 5 the audio signal of the digital broadcast program from the speakers 3 (i.e., right and left speakers 3R and 3L) which is mixed thereinto by use of the output audio signal of the decoder 11, and then outputs an echo-cancelled audio signal, which 25 is supplied to the encoder 18.

Figs. 14 shows waveform diagrams of some major

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signals for explanation of the operation of the echo canceller 39.

More specifically, Fig. 14(a) shows an audio signal "A" which is output from the decoder 11 to the 5 right-side speaker 3R, and Fig. 14(b) shows an audio signal B that is output from the decoder 11 to the leftside speaker 3L. Fig. 14(c) shows an output audio signal of the microphone 5, which is a videophone voice signal C with the audio signals A and B being superimposed thereon.

- 10 The echo canceller 39 functions to subtract and remove from this output signal of the microphone 5 both the audio signal A being output from the decoder 11 to the right speaker 3R and the audio signal B being output to the left speaker 3L. With this TV sound canceling operation, only
- 15 the audio signal C of the telephone voice as input to the microphone 5 is output from the echo canceller 39 as shown in Fig. 14(d) and then supplied to the encoder 18.

In this way, even when both the received digital broadcast program's video image and the image of a distant

20 party at the other end of a line are simultaneously displayed side-by-side on the display screen while letting respective audio/voice sounds be output from the speakers 3, it is possible to limit an audio signal being picked up by the microphone 5 and sent to the distant party to the

25 telephone voice signal only. This makes it possible to smoothly perform videophone telecommunication without

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impairing the privacy and security as to the presently watched digital broadcast program.

Although the third embodiment is configured to perform operations in respective modes which are 5 equivalent to those shown in Figs. 5 to 7 in a similar way to the first embodiment stated supra and is designed so that the decoder 11' and encoder 34' in the other-side videophone function-added TV receiver 1' are rendered inoperative in response to receipt of a deactivation

- 10 command from the self-side videophone function-added TV receiver 1 (at steps 714 and 714 in Fig. 7B), the embodiment may be modified so that the self-side videophone function-added TV receiver 1 sends a command for deactivation of the decoder 11'. In this case, when
- 15 the decoder 11' is deactivated in response to this command, the processor 12' detects it and then renders the encoder 34' inoperative.

In addition, in view of the fact that the decoder 11, 11' stops the videophone-use decode function 20 when no videophone signal is supplied thereto, the second embodiment may be arranged in a similar manner to the first embodiment stated supra in a way which follows: upon completion of a videophone call, the videophone-use decode function of decoder 11 is deactivated by, for example,

25 manual operation of the "Stop" button 7n of remote control 7 on the videophone function-added TV receiver 1 side;

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then, the encoder 18 also is rendered inoperative subsequently, resulting in no videophone signal being sent from the videophone function-added TV receiver 1 to otherside videophone function-added TV receiver 1' whereby the

- 5 decoder 11' deactivates the videophone-use decode function; in responding thereto, the processor 12' renders the encoder 18' inoperative. Even in case the abovestated deactivation operation is done on the other-side videophone function-added TV receiver 1' side, similar
 10 mode deactivation is automatically performed on the
- 10 mode deactivation is automatically performed on the videophone function-added TV receiver 1 side.

Although the encoder 18, 18' of videophone function-added TV receiver 1, 1' that performs videophone communication is arranged to halt the videophone-use

- 15 encode function in response to deactivation of the videophone-use decode function of the decoder 11', 11 of its associative videophone function-added TV receiver 1', 1, the decoder 11, 11' may be modified to halt the videophone-use decode function in response to deactivation
- 20 of the videophone-use encode function of encoder 18, 18' as detected by the processor 12, 12'. In this case, upon completion of a videophone call, when the videophone-use decode function of decoder 11 is halted by depression of the "Stop" button 7n of the remote control 7 on the
- 25 videophone function-added TV receiver 1 side as an example, the encoder 18' of the other-side videophone

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function-added TV receiver 1' is rendered inoperative; upon detection of this deactivation by the processor 12', the decoder 11' is caused to stop the videophone-use decode function. With this arrangement, the videophone

- 5 function mode is automatically ended in the other-side videophone function-added TV receiver 1' even when no videophone function mode completion operations are performed. In case the stop operation is done using the remote control 7' on the other-side videophone function-
- 10 added TV receiver 1' side also, the videophone function mode is automatically ended in the self-side videophone function-added TV receiver 1 in a similar way.

Further note that although this third embodiment is arranged so that the camera 4 and microphone 5 plus encoder 18 are internally built in the housing of videophone function-added TV receiver 1, the embodiment may be modified in a similar manner to the second embodiment shown in Fig. 9 so that it uses a detachable video camera in the apparatus main body of the videophone 20 function-added TV receiver 1, which camera is used in a

similar way to the video camera 30 of the second embodiment.

It should be further understood by those skilled in the art that although the foregoing description has 25 been made on embodiments of the invention, the invention is not limited thereto and various changes and

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modifications may be made without departing from the spirit of the invention and the scope of the appended claims.

<u>Claims</u>

1. A communication apparatus for transmitting and receiving digital information to and from another communication apparatus, comprising:

a network interface configured to receive first digital information which is received from a contents server which is coupled to the communication apparatus via the network interface and second digital information from the another communication apparatus;

a camera configured to generate video information which is included in third digital information;

a display configured to display digital information; and a processor;

wherein when the processor receives an inbound videophone call notice while displaying the first digital information on the display, the processor pauses the displaying of the first digital information and renders the camera operative;

wherein the processor outputs the third digital information to the another communication apparatus and displays the second digital information of the videophone call on the display; and

wherein when the processor receives an input for stopping the videophone call, the processor stops output of the third digital information and stops the camera.

2. The communication apparatus according to claim 1,

wherein after the videophone call is finished, the processor restarts the displaying of the first digital information.

3. The communication apparatus according to claim 2, further comprising a microphone configured to generate audio information which is included in the third digital information.

4. The communication apparatus according to claim 3,

wherein when the processor receives the inbound videophone call notice while displaying the first digital information on the display, the processor switches a function of processing video information of the first digital information to a function of processing video information of the second digital information of the videophone call.

5. The communication apparatus according to claim 4,

wherein when the processor receives an input for making an outbound videophone call to the another communication apparatus, the processor renders the camera and microphone operative and displays information indicating the outbound videophone call on the display calling message.

6. The communication apparatus according to claim 5, further comprising an echo canceller which cancels an audio signal of the first digital information from an audio signal that is output from the microphone.

7. The communication apparatus according to claim 6,

wherein the processor processes the first digital information with an HTML browser.

8. A method for transmitting and receiving digital information for a communication apparatus,

wherein the communication apparatus comprises a camera, a network interface, a display and a processor; and

wherein the method is executed by the processor,

the method comprising the steps of:

displaying first digital information which is received from a contents server which is coupled to the communication apparatus via the network interface;

upon receiving an inbound videophone call notice while playing the first digital information,

pausing the displaying of the first digital information; rendering the camera operative;

receiving second digital information from the another communication apparatus via the network interface;

generating video information which is included in third digital information by the camera;

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displaying the second digital information on the display; and outputting the third digital information to an another communication apparatus;

upon receiving an input for stopping the videophone call, stopping output of the third digital information; and stopping the camera.

9. The method according to claim 8, further comprising the step of restarting the displaying of the first digital information after the videophone call is finished.

10. The method according to claim 9, wherein the communication apparatus further comprises a microphone, and

the method further comprising the step of:

generating audio information which is included in the third digital information by the microphone.

11. The method according to claim 10, further comprising the step of: upon receiving the inbound videophone call notice while displaying the first digital information,

switching a function of processing video information of the first digital information to a function of processing video information of the second digital information of the videophone call.

12. The method according to claim 11, further comprising the steps of

upon receiving an input for making an outbound videophone call to the another communication apparatus,

rendering the camera and microphone operative; and

displaying information indicating the outbound videophone call on the display at the same time.

13. The method according to claim 12,

wherein the communication apparatus further comprising an echo

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canceller,

the method further comprising the step of:

cancelling an audio signal of the first digital information form an audio signal that is output from the microphone by the echo canceller.

14. The method according to claim 13, further comprising the step of processing the first digital information with an HTML browser.

15. A communication apparatus for transmitting and receiving digital information to and from another communication apparatus, comprising:

a network interface configured to receive first digital information which is received from a contents server which is coupled to the communication apparatus via the network interface and second digital information from the another communication apparatus;

a camera configured to generate video information which is included in a third digital information;

a display configured to display digital information; and a processor;

wherein when the processor receives an inbound videophone call notice while displaying the first digital information on the display, the processor renders the camera operative;

wherein the processor outputs the third digital information to the another communication apparatus, displays the first digital information on the display and displays the second digital information of the videophone call on the display, simultaneously; and

wherein when the processor receives an input for stopping the videophone call, the processor stops output of the third digital information and stops the camera.

16. A communication apparatus for transmitting and receiving digital information to and from another communication apparatus, comprising:

a network interface configured to receive first digital information which is received from a contents server which is coupled to the

communication apparatus via the network interface and second digital information from the another communication apparatus;

a camera configured to generate video information which is included in third digital information;

a microphone configured to generate audio information which is included in the third digital information;

a display configured to display digital information; and a processor;

wherein when the processor receives an inbound videophone call notice while storing a video signal from the camera and storing an audio signal from the microphone, the processor pauses the storing of the video signal and audio signal the image pickup signal and renders the camera operative;

wherein the processor outputs the third digital information to the another communication apparatus and displays the second digital information of the videophone call on the display; and

wherein when the processor receives an input for stopping the videophone call, the processor stops output of the third digital information and restarts to store the video signal and the audio signal.

ABSTRACT OF THE DISCLOSURE

A videophone system includes a processor which selectively sets a television (TV) broadcast program viewing function mode and videophone function mode in response to manual operation of a remote control, a decoder which performs, in the TV program view mode, a TV program-use decode function for decoding a broadcast program signal received from a TV tuner to thereby display it on a display screen while producing audio sounds by loudspeakers and which performs, in the videophone function mode a videophone-use decode function for decoding a videophone signal received from a distant party to thereby display on the screen an image of the distant party using the screen and speakers, and an encoder which performs a videophone-use encode function for encoding a video signal from a camera and a voice signal from a microphone to generate a videophone signal, which is sent to the distant party via a network.

J55945:00348:272668:1:ALEXANDRIA

	 申請デー	タシート(37 CFR 1 .	 76)を使った実	用及び意匠登録出願言	宣言書(37 CFR 1.63)
	DECLA			JTILITY OR DESIG ATA SHEET (37 C	
発明∂ Title	D名称 of Invention	TELEVISION R	ECEIVER W	ITH A TV PHONE F	UNCTION
As tł 本宣言	ne below named	bぎのことがらを宣言し I inventor, I herek irected to:		ıt:	· · · · · · · · · · · · · · · · · · ·
D	添付されている、あ The attached a				
\boxtimes	宛てられています。 United States :	に、米国出願ある application or PC		出願番号 al application	として出願されているものに
	number	13/723312	fled on	December 21, 20	12 .
I beli appli 私は本 あるい I hen unde	eve that I am th cation. <宣言書において故 はその両方による罰 eby acknowledg r 18 U.S.C. 100	意に虚偽の申し立てを 則の対象となることを ge that any willful 01 by fine or impr	or or an origin 行った場合は 18 怒めます。 false statem isonment of r	al joint inventor of a I U.S.C. 1001 により、罰る ent made in this ded iot more than five (f	a claimed invention in the あるいは最高五(5)年の禁固刑、 claration is punishable 5) years, or both.
	e reviewed and	まむ上記の明細書を確 understand the (application, including the
l ack	nowledge the d		ormation whi		鼎示する義務があることを認めます。 entability as defined in Title 37,
	fの正式氏名; AL NAME OF IN	IVENTOR: Ka	izunori IWAB	UCHI	
署名: Signa	ature: Hozur	iori Quebe	uchi-	日付(任意): Date (Optional):	Jan. 21, 2013
備考: なお残 Note:	出願データシート(P は余の発明者ごとにこ An application d	TO/AIA/14 あるいは の用紙の写しを使用っ ata sheet (PTO/AL	その同等用紙)は する。 A/14 or equiva		kの命名を含め、本用紙に添付すること。 ng the entire inventive entity, must
					IPR2020-00200

申請デ-	ータシート(37 CFR 1.76)を使	あった実)	用及び意匠登録出願	宣言書(37 CF	R 1.63)
DECL	ARATION (37 CFR 1.63) USING AN APPLICA				TION
発明の名称 Title of Invention	TELEVISION RECEIV	/ER WI	TH A TV PHONE	FUNCTION	· · · · · · · · · · · · · · · · · · ·
	つぎのことがらを宣言します。 d inventor, I hereby decl	lare tha	t: *		
This declaration is	directed to:				
添付されている、 The attached	ಕಿತೆಬರು application, or				
気 気でられています	~			として!	出願されているものに
United States number	application or PCT inter 13/723312 fle	nationa d on	Il application December 21, 2	012	
application. 私は本宣言書において あるいはその両方による I hereby acknowled under 18 U.S.C. 10	he original inventor or al な意に虚偽の申し立てを行ったす 利則の対象となることを認めます ge that any willful false 01 by fine or imprisonme	易合け 18 。 stateme ent of n	U.S.C. 1001 により、罰 ent made in this de ot more than five	金あるいは最高日 eclaration is p	五(5)年の禁固刑、 bunishable
	含む上記の明細書を確認し内 d understand the conten			application, i	ncluding the
I acknowledge the	7 編規則 1.56 に定義されている duty to disclose informat egulations, Section 1.56.	ion whi			
発明者の正式氏名 : LEGAL NAME OF	NVENTOR: Hiroki M	IZOSO			
_{署名:} Signature: 泳ん _ひ	hi Mijoca		日付(任意): Date (Optional):	Jam 1	6, 2013
備考:出願データシート(なお残余の発明者ごとに Note: An application	。 PTO/AIA/14 あるいはその同等 この用紙の写しを使用する。 data sheet (PTO/AIA/14 or Use an additional copy of	r equiva	、発明の自主独立体全 lent), including nam	体の命名を含め、 ing the entire i	本用紙に添付すること。 inventive entity, must
accompany and 10(1))	eve an accinonal copy of	are hie			PR2020-00200

	USING AN APPLICATION DATA SHEET (37 CFR 1.76)
発明の名称 Title of Invention	TELEVISION RECEIVER WITH A TV PHONE FUNCTION
	、つぎのことがらを宣言します。 ed inventor, I hereby declare that:
This declaration is	directed to:
添付されている、 The attached	ಹಿತಿಗಳು I application, or
え 宛てられています	
	s application or PCT international application
number	13/723312 fled on December 21, 2012 .
	bるいは私が権限を譲与したものによって行われたものです。 ed application was made or authorized to be made by me.
	っれるもともとの発明者、あるいはもともとの共同発明者です。 the original inventor or an original joint inventor of a claimed invention in the
っていはその両方による hereby acknowle	故意に虚偽の申し立てを行った場合は 18 U.S.C. 1001 により、罰金あるいは最高五(5)年の禁固刑、 罰則の対象となることを認めます。 dge that any willful false statement made in this declaration is punishable 001 by fine or imprisonment of not more than five (5) years, or both.
	と含む上記の明細書を確認し内容を理解しています。 nd understand the contents of the above-identified application, including the
acknowledge the	37 編規則 1.56 に定義されている、特許性について重要な情報を開示する義務があることを認めます。 duty to disclose information which is material to patentability as defined in Title 37, egulations, Section 1.56.
^き 明者の正式氏名: EGAL NAME OF	INVENTOR: Mutsumi SHIMODA
8名: Signature: かんえ	Eumi Shimoda Date (Optional): Jan. 18, 2013
なお残余の発明者ごとに Note: An application	(PTO/AIA/14 あるいはその同等用紙)は、発明の自主独立体全体の命名を含め、本用紙に添付すること。 この用紙の写しを使用する。 data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must b. Use an additional copy of the present form for each additional inventor.

ALC: NO Y

	ARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)
発明の名称 Title of Invention	TELEVISION RECEIVER WITH A TV PHONE FUNCTION
下部深田来でなる利止	つぎのことがらを宣言します。
	ed inventor, I hereby declare that:
本宣言は Chia de alacation ia	diversity of the
This declaration is	directed to:
」 添付されている、	
The attached	I application, or
マス 宛てられています	に、米国出願あるいは PCT 国際出願番号として出願されているものに
Δ	s application or PCT international application
number	13/723312 fled on December 21, 2012 .
டன்கையன்கள் க	· The NAME AND A BOY HILL AND AND AN AND AN AND AN
	あるいは私が権限を譲与したものによって行われたものです。 ed application was made or authorized to be made by me.
5るいはその両方による hereby acknowled	故意に虚偽の申し立てを行った場合は 18 U.S.C. 1001 により、罰金あるいは最高五(5)年の禁固刑、 罰則の対象となることを認めます。 dge that any willful false statement made in this declaration is punishable 001 by fine or imprisonment of not more than five (5) years, or both.
以は、特許請求の範囲な	と含む上記の明細書を確認し内容を理解しています。 nd understand the contents of the above-identified application, including the
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have reviewed an laims. 以は, 連邦規則法典第: acknowledge the	37 編規則 1,56 に定義されている、特許性について重要な情報を開示する義務があることを認めます。 duty to disclose information which is material to patentability as defined in Title 37 egulations, Section 1.56.
have reviewed an laims. ムは、連邦規則法典第: acknowledge the Code of Federal Re 5明者の正式氏名:	duty to disclose information which is material to patentability as defined in Title 37 egulations, Section 1.56.
have reviewed an laims. 以は, 連邦規則法典第: acknowledge the	duty to disclose information which is material to patentability as defined in Title 37 egulations, Section 1.56.

申請データシート(37 CFR 1.76)を使った実用及び意匠登録出顧宣言書(37 CFR 1.63) DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

USING AN APPLICATION DATA SHEET (37 GFR 1.70)
発明の名称 Title of Invention
下記発明者である私は、つぎのことがらを宣言します。
As the below named inventor, I hereby declare that:
本宣言は
This declaration is directed to:
添付されている、あるいは
The attached application, or
に、米国出願あるいは PCT 国際出願番号 として出願されているものに
に、米国出顧あるいは PCT 国際出顧番号として出願されているものに
United States application or PCT international application
number 13/723312 fled on December 21, 2012 .
上記の出願は私自身、あるいは私が権限を譲与したものによって行われたものです。
The above-identified application was made or authorized to be made by me.
私は本出願書中にあらわれるもともとの発明者、あるいはもともとの共同発明者です。
I believe that I am the original inventor or an original joint inventor of a claimed invention in the
application.
私は本宣言書において故意に虚偽の申し立てを行った場合は 18 U.S.C. 1001 により、罰金あるいは最高五(5)年の禁固刑。 あるいはその両方による罰則の対象となることを認めます。
I hereby acknowledge that any willful false statement made in this declaration is punishable
under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.
私は、特許請求の範囲を含む上記の明細書を確認し内容を理解しています。
I have reviewed and understand the contents of the above-identified application, including the claims.
私は、連邦規則法典第 37 編規則 1.56 に定義されている、特許性について重要な情報を開示する義務があることを認めます。
I acknowledge the duty to disclose information which is material to patentability as defined in Title 37,
Code of Federal Regulations, Section 1.56.
発明者の正式氏名:
LEGAL NAME OF INVENTOR: Manabu SASAMOTO
署名: Signature: Manabu Jasamoto Date (Optional): 1/16/13
備考:出願データシート(PTO/AIA/14 あるいはその同等用紙)は、発明の自主独立体全体の命名を含め、本用紙に添付すること。
なお残余の発明者ごとにこの用紙の写しを使用する。
Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional copy of the present form for each additional inventor.
IPR2020-00200

CERTIFICATE OF TRANSLATION

I, the below-named translator, of 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan hereby declare that I am conversant with the Japanese and English languages and that to the best of my knowledge and belief the attached Declaration includes a true and accurate translation into English of the Japanese text contained in the Declaration.

Dated <u>Jaly 17</u>, 2014 Signature of Translator:

 $\left(\right)$

ignature of Translator: <u>Cert</u> Takeshi Kanai











FIG.4



FIG.5

ITEM #	VOD PROCESSING	PHONE PROCESSING	REMARKS
1	PW BUTTON DEPRESSED	PW BUTTON DEPRESSED	
2	• VOD BUTTON DEPRESSED • BROWSER START	PHONE BUTTON PRESSED BROWSER START	SERVER SENDS OPERATION SCREEN
3	TITLE SELECTED & DECIDED	CALL DESTINATION SELECTED & DECIDED	
4	CHECK CHARGE & PLAYBACK RIGHT	• DISPLAY CALLING MESSAGE • ACTIVATE CAMERA, MIC & ENCODER	
5	SWITCH DECODER INPUT DECODER OPERATION START PLAYBACK	• SWITCH DECODER INPUT • DECODER OPERATION START • TALKING BY PHONE	
6	STOP BUTTON DEPRESSED DECODER STOP BROWSER STOP	• STOP BUTTON DEPRESSED • DECODER STOP • BROWSER STOP • CAMERA, MIC & ENCODER DEACTIVATED	SAME BUTTON OPERATION AS DECODER IS DEACTIVATED
7	PLAYBACK END	CALL END	

FIG.6

PWOFF	DURING TV WATCHING	DURING VOD WATCHING	OTHERS
• AUTO-PW ON • CALL HANDLING • TV WATCHING	• AUTO-VIDEOREC START • CALL HANDLING • AUTO-PLAY START	• AUTO-PAUSE • CALL HANDLING • PAUSE RESET	PRESENT STATE SAVE •CALL HANDLING •RECOVER TO SAVED STATE











FIG.9

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FIG.14



Electronic Patent A	Electronic Patent Application Fee Transmittal						
Application Number:							
Filing Date:							
Title of Invention:	TEL	EVISION RECEIVER	WITH A TV PHOI	NE FUNCTION			
First Named Inventor/Applicant Name:	Kaz	unori IWABUCHI					
Filer:	Joh	n Roberts Mattingl	y/Krista Hargrov	ve			
Attorney Docket Number: ASA-9567-06							
Filed as Large Entity							
Filing Fees for Track I Prioritized Examination - Nonp	rovis	ional Applicatio	n under 35 US	5C 111(a)			
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)		
Basic Filing:							
UTILITY APPLICATION FILING		1011	1	280	280		
UTILITY SEARCH FEE		1111	1	600	600		
UTILITY EXAMINATION FEE		1311	1	720	720		
REQUEST FOR PRIORITIZED EXAMINATION		1817	1	4000	4000		
Pages:							
Claims:							
INDEPENDENT CLAIMS IN EXCESS OF 3		1201	1	420	420		
Miscellaneous-Filing:	_						
				IPR2020	-00200		

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)		
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0		
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140		
Petition:						
Patent-Appeals-and-Interference:						
Post-Allowance-and-Post-Issuance:						
Extension-of-Time:						
Miscellaneous:						
	Tot	al in USD	(\$)	6160		

Electronic Ac	Electronic Acknowledgement Receipt					
EFS ID:	31182478					
Application Number:	15837402					
International Application Number:						
Confirmation Number:	6521					
Title of Invention:	TELEVISION RECEIVER WITH A TV PHONE FUNCTION					
First Named Inventor/Applicant Name:	Kazunori IWABUCHI					
Customer Number:	24956					
Filer:	John Roberts Mattingly					
Filer Authorized By:						
Attorney Docket Number:	ASA-9567-06					
Receipt Date:	11-DEC-2017					
Filing Date:						
Time Stamp:	14:48:54					
Application Type:	Utility under 35 USC 111(a)					

Payment information:

Submitted with Payment	yes		
Payment Type	CARD		
Payment was successfully received in RAM	\$6160		
RAM confirmation Number	121217INTEFSW14493100		
Deposit Account	501417		
Authorized User	John Mattingly		
The Director of the USPTO is hereby authorized to charge	e indicated fees and credit any overpayment as follows:		
37 CFR 1.16 (National application filing, search, and examination fees)			
37 CFR 1.17 (Patent application and reexamination pro-	cessing fees) IPR2020-00200		

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

File Listing	J.				
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
			119233		
1	TrackOne Request	9567-06-Trac1.pdf	8579b956e665a810387dc2101115d2d1ba 494813	no	2
Warnings:			Į I		
Information:					
			1793739		
2	Application Data Sheet	9567-06-ADS.pdf	3bd20f8999b71e0c1206800d1c9f4a650ec5 f032	no	10
Warnings:			Į I		
Information:					
			16173		
3	Transmittal Letter	9567-06-IDS.pdf 01fe595c3114deb4abe3d0a530b30d0b66e 7aa85		no	2
Warnings:			Į I		
Information:					
			614416	no	9
4	Information Disclosure Statement (IDS) Form (SB08)	9567-06-sb08.pdf	odf 0fc447103208792809e2e7057a995ee1e0 5efc7		
Warnings:			ł /		
Information:					
			435452		
5	Power of Attorney	9567-06-POA.pdf	36d688fa8c257547b992dbde92e36819780 f7a34	no	4
Warnings:			•		
Information:					
			4037589		
6		9567-06-application.pdf	6866799db1d57de31b0e7933d018d3ad20 83d8f8	yes	91
		art Description/PDF files in	i zip description		
	Document Des	cription	Start IPR20	E)20-002(nd)()

	Specification		1	85	
	Claims		86	90	
	Abstract		91	91	
Warnings:			•		
Information:					
7	Oath or Declaration filed	9567-06-dec.pdf	568455	no	6
			ef56aff390b45ed39f7548bd1767bc505776 41fe		
Warnings:					
Information:					
8	Drawings-only black and white line drawings	9567-06-drawings.pdf	180711		
			dcaee10cdc88c63f249c2cc011a29ba07b80 af33	no	10
Warnings:					
Information:					
9	Fee Worksheet (SB06)	fee-info.pdf	41933		
			093d78cc20d849f58e0abb77736f9fab107a a9e1	no	2
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Total Files Size (in bytes): 7807701					
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