



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/883,124	05/25/2021	11017815	ASA-10782-07	1504

24956 7590 05/05/2021
MATTINGLY & MALUR, PC
1800 DIAGONAL ROAD
SUITE 210
ALEXANDRIA, VA 22314

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):

Maxell, Ltd., Kyoto, JAPAN;
Susumu YOSHIDA, Kawasaki, JAPAN;
Junji SHIOKAWA, Chigasaki, JAPAN;
Hiroo OKAMOTO, 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 SelectUSA.gov.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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)

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.

24956 7590 01/27/2021
MATTINGLY & MALUR, PC
1800 DIAGONAL ROAD
SUITE 210
ALEXANDRIA, VA 22314

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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/883,124	05/26/2020	Susumu YOSHIDA	ASA-10782-07	1504

TITLE OF INVENTION: EDITING METHOD AND RECORDING AND REPRODUCING DEVICE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	04/27/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
ZHAO, DAQUAN	2484	386-239000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Mattingly & Malur, PC

2

3

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Maxell, Ltd.

Kyoto, Japan

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

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 501417

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature /John R. Mattingly/

Date April 26, 2021

Typed or printed name John R. Mattingly

Registration No. 30,293

Electronic Patent Application Fee Transmittal				
Application Number:		16883124		
Filing Date:		26-May-2020		
Title of Invention:		EDITING METHOD AND RECORDING AND REPRODUCING DEVICE		
First Named Inventor/Applicant Name:		Susumu YOSHIDA		
Filer:		John Roberts Mattingly/Krista Hargrove		
Attorney Docket Number:		ASA-10782-07		
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	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1200

Electronic Acknowledgement Receipt

EFS ID:	42545875
Application Number:	16883124
International Application Number:	
Confirmation Number:	1504
Title of Invention:	EDITING METHOD AND RECORDING AND REPRODUCING DEVICE
First Named Inventor/Applicant Name:	Susumu YOSHIDA
Customer Number:	24956
Filer:	John Roberts Mattingly/Krista Hargrove
Filer Authorized By:	John Roberts Mattingly
Attorney Docket Number:	ASA-10782-07
Receipt Date:	26-APR-2021
Filing Date:	26-MAY-2020
Time Stamp:	14:33:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1200
RAM confirmation Number	E20214PE34091319
Deposit Account	501417
Authorized User	Krista Hargrove

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)

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.)
1	Issue Fee Payment (PTO-85B)	10782-07-issuefeetransmittal-.pdf	88224	no	1
			69ff45c9c6dbfc34e319eab2815dd1f5e8b0e15a		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30443	no	2
			f02920103d5aed4c298dac276f4279731a064b28		

Warnings:

Information:

Total Files Size (in bytes):	118667
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

National Stage of an International Application under 35 U.S.C. 371

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

New International Application Filed with the USPTO as a Receiving Office

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



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NOTICE OF ALLOWANCE AND FEE(S) DUE

24956 7590 01/27/2021
MATTINGLY & MALUR, PC
1800 DIAGONAL ROAD
SUITE 210
ALEXANDRIA, VA 22314

EXAMINER	
ZHAO, DAQUAN	
ART UNIT	PAPER NUMBER
2484	

DATE MAILED: 01/27/2021

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/883,124	05/26/2020	Susumu YOSHIDA	ASA-10782-07	1504

TITLE OF INVENTION: EDITING METHOD AND RECORDING AND REPRODUCING DEVICE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	04/27/2021

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: 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.

PART B - FEE(S) TRANSMITTAL

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Commissioner for Patents
P.O. Box 1450
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(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/883,124	05/26/2020	Susumu YOSHIDA	ASA-10782-07	1504

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nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	04/27/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
ZHAO, DAQUAN	2484	386-239000

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☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

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(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

1 _____

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2 _____

3 _____

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

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(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/883,124	05/26/2020	Susumu YOSHIDA	ASA-10782-07	1504
24956	7590	01/27/2021	EXAMINER	
MATTINGLY & MALUR, PC			ZHAO, DAQUAN	
1800 DIAGONAL ROAD				
SUITE 210				
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2484	

DATE MAILED: 01/27/2021

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 30 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 of a patent law or regulation.

Notice of Allowability	Application No. 16/883,124	Applicant(s) YOSHIDA et al.	
	Examiner DAQUAN ZHAO	Art Unit 2484	AIA (FITF) Status No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to claims filed on 5/26/2020.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 1-27. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
a) ☒ All b) ☐ Some *c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☒ Certified copies of the priority documents have been received in Application No. 15/17,6435.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892) 2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>5/26/2020</u> . 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____. 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	5. ☐ Examiner's Amendment/Comment 6. ☒ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____.
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/DAQUAN ZHAO/ Primary Examiner, Art Unit 2484	
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1. The following is an examiner's statement of reasons for allowance:

Honkaniemi (US 2007/022382) disclose user interface includes items, each item having a media file and arranged to be visible as a thumbnail to the user interface. The item are arrange to establish at least one playlist so that a series of thumbnails are arranged to establish the playlist.

The prior arts do not disclose or suggest continue to include the video information upon the video information is included in both the first group and the second group after the video information is deleted.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAQUAN ZHAO whose telephone number is (571)270-1119 or email daquan.zhao1@uspto.gov. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tran Thai Q, can be reached on (571)272-7382. 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.

/DAQUAN ZHAO/
Primary Examiner, Art Unit 2484

Notice of References Cited	Application/Control No. 16/883,124		Applicant(s)/Patent Under Reexamination YOSHIDA et al.	
	Examiner DAQUAN ZHAO		Art Unit 2484	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20070022382-A1	01-2007	Honkaniemi; Petteri	G06F16/954	715/733
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	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.

Search Notes 	Application/Control No. 16/883,124	Applicant(s)/Patent Under Reexamination YOSHIDA et al.
	Examiner DAQUAN ZHAO	Art Unit 2484

CPC - Searched*		
Symbol	Date	Examiner

CPC Combination Sets - Searched*		
Symbol	Date	Examiner
h04n9/80 or g11b27/00 or h04n5/93 or h04n5/92	01/11/2021	dz

US Classification - Searched*			
Class	Subclass	Date	Examiner
386	239,240,278,280,281,282,326,353	01/11/2021	dz

* 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
USPAT; USPGPUB; USOCR; EPO; JPO; DERWENT; IBM_TDB	01/11/2021	DZ

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
386	239,240,278,280,281,282,326,353	01/11/2021	DZ
	h04n9/80 or g11b27/00 or h04n5/93 or h04n5/92	01/11/2021	DZ

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Issue Classification 	Application/Control No. 16/883,124	Applicant(s)/Patent Under Reexamination YOSHIDA et al.
	Examiner DAQUAN ZHAO	Art Unit 2484

CPC						
Symbol					Type	Version
G11B	/	27	/	102	F	2013-01-01
G11B	/	27	/	034	I	2013-01-01
G11B	/	27	/	34	I	2013-01-01
H04N	/	5	/	76	I	2013-01-01
H04N	/	9	/	87	I	2013-01-01
G06F	/	3	/	0482	I	2013-01-01
G11B	/	27	/	031	I	2013-01-01
G11B	/	2220	/	2562	A	2013-01-01
H04N	/	9	/	8205	A	2013-01-01

CPC Combination Sets					
Symbol				Type	Set
	/		/		

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 27	
/DAQUAN ZHAO/ Primary Examiner, Art Unit 2484 (Primary Examiner) _____ (Date) _____		11 January 2021 (Date)	O.G. Print Claim(s) 1 O.G. Print Figure 6

Issue Classification 	Application/Control No. 16/883,124	Applicant(s)/Patent Under Reexamination YOSHIDA et al.
	Examiner DAQUAN ZHAO	Art Unit 2484

INTERNATIONAL CLASSIFICATION			
CLAIMED			
H04N	/	9	/ 80
G11B	/	27	/ 00

NON-CLAIMED			
H04N	/	5	/ 93
H04N	/	5	/ 92

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
386	239

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
386	240	278	280	281	282	326
386	353					

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 27	
/DAQUAN ZHAO/ Primary Examiner, Art Unit 2484 (Primary Examiner) _____ (Date) 11 January 2021		O.G. Print Claim(s) 1	O.G. Print Figure 6

Issue Classification 	Application/Control No. 16/883,124	Applicant(s)/Patent Under Reexamination YOSHIDA et al.
	Examiner DAQUAN ZHAO	Art Unit 2484

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47
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CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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	2		11		20										
	3		12		21										
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	6		15		24										
	7		16		25										
	8		17		26										
	9		18		27										

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 27	
/DAQUAN ZHAO/ Primary Examiner, Art Unit 2484 (Primary Examiner) _____ (Date) 11 January 2021		O.G. Print Claim(s) 1	O.G. Print Figure 6

EAST Search History

EAST Search History (Prior Art)

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L4	1	("9384783").PN.	USPAT; USOCR	OR	OFF	2021/01/11 13:05
L5	1	("8644684").PN.	USPAT; USOCR	OR	OFF	2021/01/11 13:06
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L13	231	(OKAMOTO near3 HIROO).IN.	US- PGPUB; USPAT; USOCR	OR	OFF	2021/01/1 1 13:14
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S84	10,548	(386/239,240,278,280,281,282,326,353).CCL S.	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2017/07/10 11:20
S85	69	S82 and (S83 or S84)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2017/07/10 11:20
S88	1	("9818449").PN.	USPAT; USOCR	OR	OFF	2018/08/29 17:52
S89	1	("9384783").PN.	USPAT; USOCR	OR	OFF	2018/08/29 17:57
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S94	11,319	(386/239,240,278,280,281,282,326,353).CCL S.	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2018/08/29 19:24
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S107	1	("9384783").PN.	USPAT; USOCR	OR	OFF	2019/07/05 09:35
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S11 5	236	(YOSHIDA near3 SUSUMU).IN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/07/0 5 17:04
S11 6	127	(SHIOKAWA near3 JUNJI).IN.	US- PGPUB;	OR	OFF	2019/07/0 5 17:04

			USPAT; USOCR			
S11 7	225	(OKAMOTO near3 HIROO).IN.	US- PGPUB; USPAT; USOCR	OR	OFF	2019/07/0 5 17:04
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S12 0	1	("7613383").PN.	USPAT; USOCR	OR	OFF	2020/01/1 6 11:01
S12 1	1	("8644684").PN.	USPAT; USOCR	OR	OFF	2020/01/1 6 11:03
S12 2	1	("9384783").PN.	USPAT; USOCR	OR	OFF	2020/01/1 6 11:03
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S12 7	12,14 1	(386/239,240,278,280,281,282,326,353).CCL S.	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2020/01/1 6 14:29

S128	81	S125 and (S126 or S127)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2020/01/16 14:29
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EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L15	9	((delete\$5 or remov\$5) near5 video same group same continu\$4).CLM.	US-PGPUB; USPAT	OR	OFF	2021/01/11 13:16
S59	131	(video near20 (delet\$5 or eras\$5 or remov\$3) and menu).CLM.	US-PGPUB; USPAT	OR	OFF	2016/05/15 12:59
S60	7	(video near20 (delet\$5 or eras\$5 or remov\$3) and menu and thumbnail).CLM.	US-PGPUB; USPAT	OR	OFF	2016/05/15 13:00
S61	3	(video near20 (delet\$5 or eras\$5 or remov\$3) and menu and thumbnail and area).CLM.	US-PGPUB; USPAT	OR	OFF	2016/05/15 13:00
S77	148	(delete\$5 same thumbnail).CLM.	US-PGPUB; USPAT	OR	OFF	2017/06/28 13:33
S78	10	(delete\$5 same thumbnail same includ\$5 same video).CLM.	US-PGPUB; USPAT	OR	OFF	2017/06/28 13:34
S86	10	(delete\$5 same thumbnail same includ\$5 same video).CLM.	US-PGPUB; USPAT	OR	OFF	2017/07/10 11:21
S87	9	(video near20 (delet\$5 or eras\$5 or remov\$3) and menu and thumbnail).CLM.	US-PGPUB; USPAT	OR	OFF	2017/07/10 11:21
S102	13	(video near20 (delet\$5 or eras\$5 or remov\$3) and menu and thumbnail).CLM.	US-PGPUB; USPAT	OR	OFF	2018/08/29 20:33
S103	12	(delete\$5 same thumbnail same includ\$5 same video).CLM.	US-PGPUB; USPAT	OR	OFF	2018/08/29 20:33
S129	14	(delete\$5 same thumbnail same includ\$5 same video).CLM.	US-PGPUB; USPAT	OR	OFF	2020/01/16 14:29

S130	14	(delete\$5 same thumbnail same includ\$5 same video).CLM.	US- PGPUB; USPAT	OR	OFF	2020/01/16 14:29
S131	0	((delete\$5 or remov\$5) near5 video same group and thumbnail and tag and classification).CLM.	US- PGPUB; USPAT	OR	OFF	2020/01/16 14:33

1/11/2021 1:34:06 PM

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SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
16/883,124	05/26/2020	386	2484	ASA-10782-07		
RULE						
APPLICANTS Maxell, Ltd., Kyoto, JAPAN;						
INVENTORS Susumu YOSHIDA, Kawasaki, JAPAN; Junji SHIOKAWA, Chigasaki, JAPAN; Hiroo OKAMOTO, Yokohama, JAPAN;						
** CONTINUING DATA ***** This application is a CON of 16/221,908 12/17/2018 PAT 10679674 which is a CON of 15/808,175 11/09/2017 PAT 10199072 which is a CON of 15/176,435 06/08/2016 PAT 9818449 which is a CON of 14/141,417 12/26/2013 PAT 9384783 which is a CON of 12/567,898 09/28/2009 PAT 8644684 which is a CON of 11/203,457 08/11/2005 PAT 7613383						
** FOREIGN APPLICATIONS ***** JAPAN 2004-378767 12/28/2004 JAPAN 2004-378768 12/28/2004 JAPAN 2004-349264 12/02/2004						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 06/03/2020						
Foreign Priority claimed ☒ Yes ☐ No 35 USC 119(a-d) conditions met ☒ Yes ☐ No Verified and /DAQUAN ZHAO/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY JAPAN	SHEETS DRAWINGS 9	TOTAL CLAIMS 27	INDEPENDENT CLAIMS 4
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TITLE EDITING METHOD AND RECORDING AND REPRODUCING DEVICE						
FILING FEE RECEIVED 2880	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		
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	Attorney Docket Number	ASA-10782-07	

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First Named Inventor	YOSHIDA, S.	
Art Unit		
Examiner Name		
Attorney Docket Number	ASA-10782-07	

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Art Unit		
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21	6020930	A	2000-02-01	LEGRAND	
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Art Unit		
Examiner Name		
Attorney Docket Number	ASA-10782-07	

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Filing Date		2020-05-26
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Art Unit		
Examiner Name		
Attorney Docket Number	ASA-10782-07	

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Application Number

16883124 - GAU: 2484

Filing Date

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First Named Inventor

YOSHIDA, S.

Art Unit

Examiner Name

Attorney Docket Number

ASA-10782-07

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
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Art Unit		
Examiner Name		
Attorney Docket Number	ASA-10782-07	

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Art Unit		
Examiner Name		
Attorney Docket Number	ASA-10782-07	

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Art Unit		
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Attorney Docket Number	ASA-10782-07	

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Application Number		16883124 - GAU: 2484
Filing Date		2020-05-26
First Named Inventor	YOSHIDA, S.	
Art Unit		
Examiner Name		
Attorney Docket Number	ASA-10782-07	

11	1243596	CN	A	2000-02-02	MATSUSHITA ELECTRIC IND CO LTD.		
12	2003-123389	JP	A	2003-04-25	SONY CORP.		
13	2002-197806	JP	A	2002-07-12	TOSHIBA CORP.		

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NON-PATENT LITERATURE DOCUMENTS

Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Fandango Media, LLC's S.P.R. 2.5 Invalidity Contentions which were filed March 26, 2018 in the following litigation: MAXELL, LTD. v. FANDANGO MEDIA, LLC, Civil Action No. 2:17-cv-07534 AG-(SSx) (C.D. Cali.), filed October 13, 2017	
	2	PONCELEON, D. et al., "Key to Effective Video Retrieval: Effective Cataloging and Browsing", 1998, pp. 99-107	
	3	SRINIVASAN, S. et al., "What is in that Video Anyway?", 1999, pp. 388-393	
	4	POLLACK, W., "Tuning In: The Future of Copyright Protection for Online Music in the Digital Millennium", Fordham Law Review, 2000, pp. 2445-2488, Vol. 68, Issue 6	
	5	LG Electronics U.S.A., Inc. et al., "Zenith Installation and Operating Guide Warranty" for DVR413 DVD Recorder, May 13, 2004	
	6	WACTLAR, H. D. et al., "Lessons Learned from Building a Terabyte Digital Video Library", IEEE, 1999, pp.66-73	

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

Application Number		16883124 - GAU: 2484
Filing Date		2020-05-26
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Art Unit		
Examiner Name		
Attorney Docket Number	ASA-10782-07	

7	Japan Patent Office (JPO) office action for JPO patent application JP2008-268104 (June 12, 2009).
8	Japan Patent Office (JPO) office action for JPO patent application JP2004-349264 (August 6, 2008).
9	Chinese Intellectual Property Office (SIPO) office action for SIPO patent application CN2005-100935522 (May 26, 2008).
10	Toshiba HDD & DVD Video Recorder Instruction Manual RD-X5 Operating Instructions, Toshiba Corporation, pp. 148-159 (2004).
11	Office action for Japan Patent Office patent application JP2008-31843 (December 21, 2010).
12	Central District of California Case No. 2:17 -cv- 7534
13	Central District of California Case No. 2:17 -cv- 7538
14	Fandango Media, LLC v. Maxell, Ltd., Petition for Inter Partes Review of U.S. Patent No. 9,384,783, Inter Partes Review No. IPR2018-01432 Final Written Decision entered February 10, 2020

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/DAQUAN ZHAO/	Date Considered	01/22/2021
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*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.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV 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.

**INFORMATION DISCLOSURE
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(Not for submission under 37 CFR 1.99)

Application Number		16883124 - GAU: 2484	
Filing Date		2020-05-26	
First Named Inventor	YOSHIDA, S.		
Art Unit			
Examiner Name			
Attorney Docket Number	ASA-10782-07		

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.

☒ 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)	2020-05-26
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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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.
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/883,124	05/26/2020	Susumu YOSHIDA	ASA-10782-07

CONFIRMATION NO. 1504

PUBLICATION NOTICE



OC000000119791192

24956
MATTINGLY & MALUR, PC
1800 DIAGONAL ROAD
SUITE 210
ALEXANDRIA, VA 22314

Title: EDITING METHOD AND RECORDING AND REPRODUCING DEVICE

Publication No. US-2020-0286524-A1

Publication Date: 09/10/2020

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 Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 16/883,124				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	300			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	660			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	760			
TOTAL CLAIMS (37 CFR 1.16(j))	27 minus 20 =	*				x 100 =	700			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4 minus 3 =	*				x 460 =	460			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	2880			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR 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 =			x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =			x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE			TOTAL ADD'L FEE	
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	**	=	x =			x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =			x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE			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.										



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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
16/883,124	05/26/2020	2688	2880	ASA-10782-07	27	4

CONFIRMATION NO. 1504

FILING RECEIPT



0000000117486935

24956
MATTINGLY & MALUR, PC
1800 DIAGONAL ROAD
SUITE 210
ALEXANDRIA, VA 22314
UNITED STATES OF AMERICA

Date Mailed: 06/05/2020

Receipt is acknowledged of this non-provisional utility 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 FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

Susumu YOSHIDA, Kawasaki, JAPAN;
Junji SHIOKAWA, Chigasaki, JAPAN;
Hiroo OKAMOTO, 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 16/221,908 12/17/2018 PAT 10679674
which is a CON of 15/808,175 11/09/2017 PAT 10199072
which is a CON of 15/176,435 06/08/2016 PAT 9818449
which is a CON of 14/141,417 12/26/2013 PAT 9384783
which is a CON of 12/567,898 09/28/2009 PAT 8644684
which is a CON of 11/203,457 08/11/2005 PAT 7613383

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JAPAN 2004-378767 12/28/2004 No Access Code Provided
JAPAN 2004-378768 12/28/2004 No Access Code Provided
JAPAN 2004-349264 12/02/2004 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: 06/03/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/883,124**

Projected Publication Date: 09/10/2020

Non-Publication Request: No

Early Publication Request: No

Title

EDITING METHOD AND RECORDING AND REPRODUCING DEVICE

Preliminary Class

369

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		
	Filing Date		2020-05-26
	First Named Inventor	YOSHIDA, S.	
	Art Unit		
	Examiner Name		
	Attorney Docket Number	ASA-10782-07	

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	6219837	B1	2001-04-17	YEO et al.	
	2	6934964	B1	2005-08-23	SCHAFFER et al.	
	3	6456334	B1	2002-09-24	DUHAULT	
	4	5442744	A	1995-08-15	PIECH et al.	
	5	5884056	A	1999-03-16	STEELE	
	6	6400378	B1	2000-12-26	SNOOK	
	7	6166735	A	2000-12-26	DOM	
	8	5715403	A	1998-02-03	STEFIK	

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Attorney Docket Number	ASA-10782-07	

9	5654746	A	1997-08-05	MCMULLAN, JR. et al.	
10	5734823	A	1998-03-31	SAIGH et al.	
11	7443418	B2	2008-10-28	BRYANT et al.	
12	5758068	A	1998-05-26	BRANDT et al.	
13	6882793	B1	2005-04-19	FU et al.	
14	8291444	B1	2012-10-16	NEWELL	
15	6754548	B1	2004-06-22	YOSHII et al.	
16	7231360	B2	2007-06-12	SY	
17	6611813	B1	2003-08-26	BRATTON	
18	7249106	B2	2007-07-24	TANABE et al.	
19	7565675	B2	2009-07-21	SINCAGLIA et al.	

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20	6236971	B1	2001-05-22	STEFIK et al.	
21	6020930	A	2000-02-01	LEGRAND	
22	6646655	B1	2003-11-11	BRANDT et al.	
23	5751282	A	1998-05-12	GIRARD et al.	
24	5616876	A	1997-04-01	CLUTS	
25	6175362	B1	2001-01-16	HARMS et al.	
26	6243725	B1	2001-06-05	HEMPLEMAN et al	
27	4086619	A	1978-04-25	MIYAKE et al.	
28	4970663	A	1990-11-13	BEDELL et al.	
29	5704051	A	1997-12-30	LANE et al.	
30	6005579	A	1999-12-21	SUGIYAMA et al.	

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First Named Inventor	YOSHIDA, S.	
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31	6734909	B1	2004-05-11	TERANE et al.	
32	6724403	B1	2004-04-20	SANTORO et al.	
33	6181870	B1	2001-01-30	OKADA et al.	
34	7512622	B2	2009-03-31	VOLK et al.	
35	6480669	B1	2002-11-12	TSUGUMAGARI et al.	
36	7257774	B2	2007-04-14	DENOUE et al.	
37	6470140	B1	2002-10-22	SUGIMOTO et al.	
38	7613383	B2	2009-11-03	YOSHIDA et al.	
39	6182069	B1	2001-01-30	NIBLACK et al.	
40	6301586	B1	2001-10-09	YANG et al.	
41	7594177	B2	2009-09-22	JOJIC et al.	

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First Named Inventor	YOSHIDA, S.	
Art Unit		
Examiner Name		
Attorney Docket Number	ASA-10782-07	

42	7610306	B2	2009-10-27	LIN et al.	
43	7639943	B1	2009-12-29	KALAJAN	
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45	7281220	B1	2007-10-09	RASHKOVSKIY	
46	6023520	A	2000-02-08	NAGASAKA et al.	
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	2020-05-26
First Named Inventor	YOSHIDA, S.
Art Unit	
Examiner Name	
Attorney Docket Number	ASA-10782-07

53	6408301	B1	2002-06-18	PATTON et al.
54	5930446	A	1999-07-27	KANDA
55	8036516	B2	2011-10-11	MATSUMOTO
56	6289165	B1	2001-09-11	ABECASSIS
57	7974511	B2	2011-07-05	MIKAWA
58	7715690	B1	2010-05-11	NOMURA, et al.
59	7853893	B2	2010-12-14	MULLER, et al.

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20060168147	A1	2006-07-27	INOUE et al.	
	2	20060107289	A1	2006-05-18	DEYONKER et al.	

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Application Number		
Filing Date		2020-05-26
First Named Inventor	YOSHIDA, S.	
Art Unit		
Examiner Name		
Attorney Docket Number	ASA-10782-07	

3	20010056434	A1	2001-12-27	KAPLAN et al.	
4	20040078383	A1	2004-04-22	MERCER et al.	
5	20010052127	A1	2001-12-13	SEO et al.	
6	20030122861	A1	2003-07-03	JUN et al.	
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Application Number		
Filing Date		2020-05-26
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Art Unit		
Examiner Name		
Attorney Docket Number	ASA-10782-07	

14	20020056098	A1	2002-05-09	WHITE	
15	20020166122	A1	2002-11-07	KIKINIS et al.	
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Application Number		
Filing Date		2020-05-26
First Named Inventor	YOSHIDA, S.	
Art Unit		
Examiner Name		
Attorney Docket Number	ASA-10782-07	

25	20050094031	A1	2005-05-05	TECOT et al.
26	20030005442	A1	2003-01-02	BRODERSEN et al.
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33	20080092168	A1	2008-04-17	LOGAN et al.
34	20010041049	A1	2001-11-15	KANDA

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Filing Date		2020-05-26
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	1	1 058 257	EP	A1	2000-12-06	SONY CORPORATION		
	2	97/25798	WO	A1	1997-07-17	THE MITRE CORPORATION		
	3	99/48296	WO	A1	1999-09-23	INTERTRUST TECHNOLOGIES CORPORATION		
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	10	2002-150503	JP	A	2002-05-24	PIONEER ELECTRONIC CORP.		

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Application Number	
Filing Date	2020-05-26
First Named Inventor	YOSHIDA, S.
Art Unit	
Examiner Name	
Attorney Docket Number	ASA-10782-07

11	1243596	CN	A	2000-02-02	MATSUSHITA ELECTRIC IND CO LTD.		
12	2003-123389	JP	A	2003-04-25	SONY CORP.		
13	2002-197806	JP	A	2002-07-12	TOSHIBA CORP.		

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Fandango Media, LLC's S.P.R. 2.5 Invalidity Contentions which were filed March 26, 2018 in the following litigation: MAXELL, LTD. v. FANDANGO MEDIA, LLC, Civil Action No. 2:17-cv-07534 AG-(SSx) (C.D. Cali.), filed October 13, 2017	
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	4	POLLACK, W., "Tuning In: The Future of Copyright Protection for Online Music in the Digital Millennium", Fordham Law Review, 2000, pp. 2445-2488, Vol. 68, Issue 6	
	5	LG Electronics U.S.A., Inc. et al., "Zenith Installation and Operating Guide Warranty" for DVR413 DVD Recorder, May 13, 2004	
	6	WACTLAR, H. D. et al., "Lessons Learned from Building a Terabyte Digital Video Library", IEEE, 1999, pp.66-73	

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First Named Inventor	YOSHIDA, S.	
Art Unit		
Examiner Name		
Attorney Docket Number	ASA-10782-07	

7	Japan Patent Office (JPO) office action for JPO patent application JP2008-268104 (June 12, 2009).
8	Japan Patent Office (JPO) office action for JPO patent application JP2004-349264 (August 6, 2008).
9	Chinese Intellectual Property Office (SIPO) office action for SIPO patent application CN2005-100935522 (May 26, 2008).
10	Toshiba HDD & DVD Video Recorder Instruction Manual RD-X5 Operating Instructions, Toshiba Corporation, pp. 148-159 (2004).
11	Office action for Japan Patent Office patent application JP2008-31843 (December 21, 2010).
12	Central District of California Case No. 2:17 -cv- 7534
13	Central District of California Case No. 2:17 -cv- 7538
14	Fandango Media, LLC v. Maxell, Ltd., Petition for Inter Partes Review of U.S. Patent No. 9,384,783, Inter Partes Review No. IPR2018-01432 Final Written Decision entered February 10, 2020

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Application Number	
Filing Date	2020-05-26
First Named Inventor	YOSHIDA, S.
Art Unit	
Examiner Name	
Attorney Docket Number	ASA-10782-07

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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.

☒ 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)	2020-05-26
Name/Print	John R. Mattingly	Registration Number	30,293

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Application Number	
Filing Date	May 26, 2020
First Named Inventor	S.YOSHIDA
Title	EDITING METHOD AND RECORDING AND REPRODUCING DEVICE
Art Unit	
Examiner Name	
Attorney Docket Number	ASA-10782-07

SIGNATURE of Applicant or Patent Practitioner

Signature	/John R. Mattingly/	Date (Optional)	May 26, 2020
Name	John R. Mattingly	Registration Number	30293
Title (if Applicant is a juristic 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.



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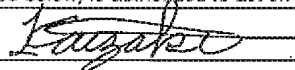
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氏名 Name	Kazuhiro Kaizaki		
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ABSTRACT OF THE DISCLOSURE

In order to provide a recording and reproducing device that allows a user to select and manage arbitrary play lists, a unit of management for managing all registered play list information and an upper management hierarchical level are added. The unit of management is adapted to be handled on the same level with unified information that indicates a reproduction range of all AV data. User-defined unified information is adapted to be handled on the added management hierarchical level. The user-defined unified information is formed to allow arbitrary reproduction ranges contained on a lower hierarchical level to be registered.

Claims

1. An information processing apparatus comprising:

a network interface;

a recording medium on which is stored a plurality of video information including first video information received wirelessly by the network interface over a network from another information processing apparatus, wherein at least some of the plurality of video information is associated with a user profile;

a display; and

a processor for controlling the display to display:

a first area including a first character associated with a first group of video information for a first classification and a second character associated with a second group of video information for a second classification different from the first classification, the first group of video information being configured to allow a user to edit, wherein the first group of video information and the second group of video information are part of the plurality of stored video information, and

a second area displaying thumbnails corresponding to at least a portion of the plurality of stored video information,

wherein user selection of the first character enables the display of a first group of thumbnails corresponding to the first group of video information in the second area,

wherein user selection of the second character enables the display of a second group of thumbnails corresponding to the second group of video information in the second area,

wherein, upon one video information stored on the recording medium included in both the first group of video information and the second group of video information being deleted from the first group of video

information, the one video information continues to be included in the second group of video information and the processor controls the display to display a thumbnail corresponding to the one video information as one of the second group of thumbnails when the second character is selected.

2. The information processing apparatus of claim 1, further comprising:

wherein the processor generates a group of video information based on user preferences determined by the user selections of the video information, and

wherein, upon user selection of the group, the processor controls the display to display thumbnails that correspond to the video information and no other thumbnails associated with video information of other users.

3. The information processing apparatus of claim 1, further comprising:

an antenna for wirelessly receiving the first video information from the other information processing apparatus.

4. The information processing apparatus of claim 1,

wherein the plurality of stored video information includes third video information recorded by the information processing apparatus, fourth video information, and fifth video information,

wherein the display displays a user interface having thumbnails corresponding to each of the third, fourth, and fifth video information.

5. The information processing apparatus of claim 4,

wherein the display displays the third, fourth, and fifth video information according to predetermined playback sequence.

6. The information processing apparatus of claim 1,

wherein the plurality of stored video information includes third video information, fourth video information, and fifth video information,

wherein the plurality of stored video information includes management information corresponding to the third, fourth, and fifth video information,

wherein the management information includes filename information and timing information for each of the third, fourth, and fifth video information such that when the third, fourth, and fifth video information is stored in the recording medium the filename information is updated according to a predetermined sequence.

7. The information processing apparatus of claim 1, further comprising:

an analog to digital converter for converting analog audio information being recorded into digital audio information;

a compressor for compressing the plurality of video information including digital video information and the digital audio information;

a decoder for decoding, during playback, the compressed digital video information and the compressed digital audio information included in the plurality of stored video information and selected for reproduction by the user; and

a digital to analog converter for converting at least the decoded digital audio information into analog audio information during playback.

8. The information processing apparatus of claim 1, further comprising:

an on screen display generator generating on screen display information, wherein the plurality of stored video information includes third video information such that, upon selection for playback, the third video information is outputted with the on screen display information for display of the third video information and the on screen display information.

9. An information processing method implemented on an information processing apparatus, the information processing method comprising:

storing a plurality of video information including first video information received wirelessly by a network interface over a network from another information processing apparatus, wherein at least some of the plurality of video information is associated with a user profile; and

displaying:

a first area including a first character associated with a first group of video information for a first classification and a second character associated with a second group of video information for a second classification different from the first classification, the first group of video information being configured to allow a user to edit, wherein the first group of video information and the second group of video information are part of the plurality of stored video information, and

a second area displaying thumbnails corresponding to at least a portion of the plurality of stored video information,

wherein user selection of the first character enables the display of a first group of thumbnails corresponding to the first group of video information in the second area, and

wherein user selection of the second character enables the display of a second group of thumbnails corresponding to the second group of video information in the second area;

upon one video information stored on the recording medium included in both the first group of video information and the second group of video information being deleted from the first group of video information, the one video information continues to be included in the second group of video information, and displaying a thumbnail corresponding to the one video information as one of the second group of thumbnails when the second character is selected;

wherein the processor generating a group of video information based on user preferences determined by the user selections of the video information, and

upon user selection of the group, displaying thumbnails that correspond to the video information and no other thumbnails associated with video information of other users.

10. The information processing method of claim 9, further comprising:

wirelessly receiving the first video information from the other information processing apparatus via an antenna of the information processing apparatus.

11. The information processing method of claim 9,

wherein the plurality of stored video information includes third video information recorded by the information processing apparatus, fourth video information, and fifth video information,

wherein the information processing apparatus displays a user interface having thumbnails corresponding to each of the third, fourth, and fifth video information.

12. The information processing method of claim 11,

wherein the information processing apparatus displays the third, fourth, and fifth video information according to predetermined playback sequence.

13. The information processing method of claim 9,

wherein the plurality of stored video information includes third video information, fourth video information, and fifth video information,

wherein the plurality of stored video information includes management information corresponding to the third, fourth, and fifth video information,

wherein the management information includes filename information and timing information for each of the third, fourth, and fifth video information such that when the third, fourth, and fifth video information is stored in the recording medium the filename information is updated according to a predetermined sequence.

14. The information processing method of claim 9, further comprising:

converting, by an analog to digital converter of the information processing apparatus, analog audio information being recorded into digital audio information;

compressing, by a compressor of the information processing apparatus, the plurality of video information including digital video information and the digital audio information;

decoding, during playback and by a decoder of the information processing apparatus, the compressed digital video information and the compressed digital audio information included in the plurality of stored video information and selected for reproduction by the user; and

converting, by a digital to analog converter of the information processing apparatus, at least the decoded digital audio information into analog audio information during playback.

15. The information processing method of claim 9, further comprising:

generating, by the information processing apparatus, on screen display information,
wherein the plurality of stored video information includes third video information such that, upon selection for playback, the third video information is outputted with the on screen display information for display of the third video information and the on screen display information.

16. A method for reproducing video content associated with user profiles being implemented on an information processing apparatus, comprising:

receiving, via a network, first video information wirelessly from a device external to the information processing apparatus, the first video information being received including second video information that is encrypted;

displaying, on a display device, a first user interface for a user to select a user profile from among a plurality of user profiles including a first user profile associated with a first character and a second user profile associated with a second character, the plurality of user profiles being associated with video information and the first user interface including an option for a user to select the first user profile from the plurality of user profiles by selecting the first character;

receiving a selection of the first user profile;

displaying, in response to the selection, a second user interface for a user to select desired video information to be reproduced from among the first video information, the second user interface being associated with the first user profile and displaying the first character, the first character associated with a first group of video information and indicating an identity of the user of the first user profile, the second user interface further displaying thumbnails corresponding to the first group of video information;

displaying the second character and a second group of thumbnails corresponding to a second group of video information associated with the second user profile when the second character is selected, the first group of video information and the second group of video information including one video information that is the same;

receiving a selection to remove the one video information from the first group of video information associated with the first user profile;

removing the one video information from the first group of video information, wherein, upon the one video information being removed from the first group of video information, the one video information continues to be included in the second group of video information for the second user profile and the second group of thumbnails continues to display a thumbnail corresponding to the one video information when the second character is selected;

receiving a selection of desired video information based on a selection of a thumbnail from the first group of thumbnails, the desired video information included in the second video information ;

decrypting video information corresponding to the selected thumbnail; and

displaying the decrypted video information.

17. The method of claim 16,

wherein any user can delete stored video information regardless of a user profile from the plurality of user profiles that was used to record the stored video information.

18. The method of claim 16, further comprising:

generating a list of video information based on preferences of a user determined by a user selections of thumbnails from the first or second group of thumbnails.

19. The method of claim 16, further comprising:

generating a list of video information based on preferences of a user determined by a user selections of thumbnails associated with the first video information, the list including third video information;

receiving a selection of the list by the user; and

in response to the selection of the list, displaying the thumbnails that correspond to the third video information and no other thumbnails associated with video information of other users.

20. The method of claim 16, further comprising:

generating on screen display information, wherein the first video information includes third video information such that, upon selection for playback, the third video information is outputted with the on screen display information for display of the third video information and the on screen display information.

21. An information processing apparatus comprising:

a network interface receiving first video information wirelessly from a device external to the information processing apparatus, the first video information being received including second video information that is encrypted;

a display displaying a first user interface for a user to select a user profile from among a plurality of user profiles including a first user profile associated with a first character and a second user profile associated with a second character, the plurality of user profiles being associated with video information and the first user interface including an option for a user to select the first user profile from the plurality of user profiles by selecting the first character;

an input interface receiving a selection of the first user profile at a first time and a selection of the second character at a second time,

wherein, in response to the selection of the first user profile, the display displays a second user interface for a user to select desired video information to be reproduced from among the first video information, the second user interface being associated with the first user profile and displaying the first character, the first character associated with a first group of video information and indicating an identity of the user which the first user profile is associated with, the second user interface further displaying thumbnails corresponding to the first group of video information, and

wherein, in response to the selection of the second user profile, the display displays the second character and a second group of thumbnails corresponding to a second group of video information associated with the second user profile when the second character is selected, the first group of video information and the second group of video information including one video information that is the same; and

a processor for removing one video information from the first group of video information after the input interface receives a selection to remove the one video information from the first group of video information associated with the first user profile, wherein, upon the one video information being removed from the first group of video information, the one video information continues to be included in the second group of video information for the second user profile and the second group of thumbnails continues to display a thumbnail corresponding to the one video information when the second character is selected,

wherein the processor decrypts second video information corresponding to a selected thumbnail when the input interface receives a selection of desired video information based on a selection of a thumbnail from the first group of thumbnails, and

wherein the display displays the decrypted video information.

22. The information processing apparatus of claim 21, further comprising:

an antenna for wirelessly receiving the first video information.

23. The information processing apparatus of claim 21,

wherein any user can delete stored video information regardless of a user profile from the plurality of user profiles that was used to record the stored video information.

24. The information processing apparatus of claim 21,

wherein the processor generates a list of video information based on preferences of a user determined by a user selections of thumbnails from the first or second group of thumbnails.

25. The information processing apparatus of claim 21,

wherein the processor generates a list of video information based on preferences of a user determined by a user selections of thumbnails associated with the first video information, the list including third and fourth video information, and, in response to the input interface receiving a selection of the list by the user, the display displays only those thumbnails that correspond to the third and fourth video information and no other thumbnails associated with video information of other users.

26. The information processing apparatus of claim 21, further comprising:

an analog to digital converter for converting analog audio information being recorded into digital audio information;

a compressor for compressing the first video information;

a decoder for decoding, during playback, audio and video information included in the first video information and selected for reproduction by the user; and

a digital to analog converter for converting at least the digital audio information into audio information during playback.

27. The information processing apparatus of claim 21, further comprising:

an on screen display generator generating on screen display information,

wherein the first video information includes third video information such that, upon selection for playback, the third video information is outputted with the on screen display information for display of the third video information and the on screen display information.

EDITING METHOD AND RECORDING AND REPRODUCING DEVICE

CROSS-REFERENCE TO RELATED APPLICATIONS(S)

[0001] This is a continuation application of U.S. Patent Application No. 16/221,908, filed December 17, 2018, which is a continuation application of U.S. Patent Application No. 15/808,175, filed November 9, 2017, which is a continuation application of U.S. Patent Application No. 15/176,435, filed June 8, 2016, now U.S. Patent No. 9,818,449, which is a continuation of U.S. Patent Application No. 14/141,417, filed December 26, 2013, now U.S. Patent No. 9,384,783 (the entire disclosure of which is incorporated herein by reference for all purposes), which is a continuation of U.S. Patent Application No. 12/567,898, filed September 28, 2009, now U.S. Patent No. 8,644,684 (the entire disclosure of which is incorporated herein by reference for all purposes), which is a continuation of U.S. Patent Application No. 11/203,457, filed on August 11, 2005, now U.S. Patent No. 7,613,383 (the entire disclosure of which is incorporated herein by reference for all purposes), which application claims priority from Japanese Patent Application Nos. JP2004-349264, filed December 2, 2004, JP2004-378767, filed December 28, 2004, and JP2004-378768, filed December 28, 2004, the entire disclosures of which are incorporated herein by reference for all purposes.

BACKGROUND OF THE INVENTION

[0002] Field of the Invention

[0003] The present invention relates to a recording and reproducing device which records data onto a recording medium and reproduces data from the recording medium.

[0004] Description of the Related Art

[0005] As the high-efficiency coding technique advances, it has become possible to handle AV data such as video data and audio data as digital data, conduct code rate compression, and record resultant data on a large-capacity recording medium such as a hard disk or a recording type optical disk in real time. When digital data already compressed in code rate is inputted to a recording and reproducing device having such a recording medium from outside by broadcasting or communication, it is also possible to record the digital data on the recording medium intact.

[0006] In these recording and reproducing device, management information for managing digital data to be recorded is generated and recorded together onto the same recording medium. When a rewritable recording medium is used, the user can conduct editing work on the recording and reproducing device by rewriting the management information and generating and manipulating a list indicating the reproduction sequence (hereinafter referred to as play list) (see, for example, JP-A-2000-152180).

SUMMARY OF THE INVENTION

[0007] In the above-described conventional technique, it is mentioned that the play list indicates the reproduction sequence by linking portions of AV data together. As an

example, a management state of AV data on a recording medium in the above-described conventional technique is shown in Fig. 2.

[0008] Reference numeral 201 designates AV data themselves on the recording medium. The case where a program #1 to a program #3 are present as recording units is shown. Reference numeral 202 designates a second management hierarchical level (management level 2) in management information. Original cell information #1 to original cell information #3 indicate the whole reproduction range of program units, i.e., a program #1 to a program #3, respectively. Each of user-defined cell information #1 to user-defined information #2 indicates a reproduction range of the whole or a part of a program arbitrarily specified by the user. The number of the user-defined cell information #1 to user-defined information #2 is increased or decreased by the user's editing manipulation. Reference numeral 203 designates a first management hierarchical level (management level 1). Program information contains all of the original cell information #1 to original cell information #3. By conducting reproduction on the basis of the program set information, the user can reproduce all AV data recorded on the recording medium. Play list information #1 to play list information #k indicate a reproduction sequence of the user-defined cell information arbitrarily specified by the user. It is possible to have a plurality of reproduction sequences. Inside of a frame 204 becomes original information for managing the whole AV data in the management information. Inside of a frame 205 becomes user-defined information for managing the play list obtained by the user's editing manipulation.

[0009] In Fig. 2, the play list information is placed on the same level with the program set information and managed as the management level 1. Therefore, the sequence of a plurality of play list information pieces themselves is determined uniquely. For example, as for a catalog of the play lists, it is impossible on the user's interface to alter the display sequence. In view of the problem, the present invention has been achieved. An object of the present invention is to provide a recording scheme and device in which the user can conduct manipulation of arbitrarily rearranging the display sequence of the play lists in the play list catalog on the user interface.

[0010] Furthermore, in the conventional technique example, attention is not paid to that a plurality of users generate, select and manage favorite play list information. For example, even when a plurality of users desire to generate, select and manage respective favorite play list information pieces, it cannot be implemented. Furthermore, attention is not especially paid to that a user select some arbitrary play lists from among a plurality of play lists and manage them.

[0011] In view of these problems, the present invention has been achieved. An object of the present invention is to provide a recording and reproducing device in which the user can select and manage arbitrary play lists.

[0012] In order to achieve the objects, in accordance with the present invention, a unit of management for managing all registered play list information and an upper management hierarchical level are added. The unit of management is adapted to be handled on the same level with unified information that indicates a reproduction range of all AV data. User-defined unified information is adapted to be handled on the added management hierarchical level. The user-defined unified information is formed to allow arbitrary reproduction ranges contained on a lower hierarchical level to be registered.

[0013] In a recording and reproducing device according to the present invention, it becomes possible for the user to select arbitrary play lists or reproduction ranges and conduct management. Even in the case where a plurality of users share a single recording medium, therefore, each user can manage favorite reproduction contents, resulting in improved usage. Since the play lists are subject to unified management, it becomes possible for the user to arbitrarily alter the display sequence of play lists.

[0014] According to the present invention, a recording and reproducing device improved in usage can be provided.

[0015] Other objects, features and advantages of the 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

[0016] Fig. 1 shows a management state of AV data in a recording and reproducing device according to an embodiment of this invention;

[0017] Fig. 2 shows a management state of AV data in a conventional technique example;

[0018] Fig. 3 shows a block diagram of a recording and reproducing device according to an embodiment of this invention;

[0019] Fig. 4 shows a display output example of original unified information;

[0020] Fig. 5 shows a display output example of play list unified information;

[0021] Fig. 6 shows a first output example of user-defined unified information;

[0022] Fig. 7 shows a second output example of user-defined unified information;

[0023] Fig. 8 shows an example of a file structure of original unified information, play list unified information, user-defined unified information, play list information, program information, and AV data (program);

[0024] Fig. 9 shows an example of a management table structure of original unified information, play list unified information, and user-defined unified information;

[0025] Fig. 10 shows an example of a management table of play list information;

[0026] Fig. 11 shows an example of a management table of program list information;

[0027] Fig. 12 shows a display output example of play list unified information; and

[0028] Fig. 13 shows an example of a table indicating contents of user-defined information #m.

DESCRIPTION OF THE EMBODIMENTS

[0029] Hereafter, embodiments of the present invention will be described with reference to the drawings. Fig. 1 shows a management state of AV data on a recording medium in a recording and reproducing device according to the present invention. In the same way as the reference numeral 201 in Fig. 2, reference numeral 101 designates AV data themselves on the recording medium. The case where programs #1 to #3 are present as recording units is shown.

[0030] Reference numeral 102 corresponds to 202 in Fig. 2. However, reference numeral 102 designates a third management hierarchical level (management level 3) in management information. Program information #1 to program information #3 indicate the whole reproduction ranges of program units, i.e., program #1 to program #3, respectively. Each of program information #2a to program information #3a indicates a reproduction range of the whole or a part of a program arbitrarily specified by the user. The program information #2a to program information #3a indicate a part of the program #2 and a part of the program #3, respectively. In places corresponding to the program information #1 to program information #3, information is also added, as AV data is added, i.e., with an increase in programs. In places corresponding to the program information #2a to the program information #3a, the number of information pieces increases or decreases due to the editing manipulation of the user.

[0031] Reference numeral 103 corresponds to the management level 1 in Fig. 2. However, numeral 103 designates a second management hierarchical level (management level 2), which includes only play list information #1 to play list information #n. Each play list information indicates a reproduction sequence of arbitrary program information pieces on the management level 3. It is possible to have a plurality of reproduction sequences.

[0032] Reference numeral 104 designates a newly added first management hierarchical level (management level 1) in the management information as a feature point of the present invention. The management level 1 includes a plurality of unified information pieces. Original unified information corresponds to the program set information shown in Fig. 2. The original unified information contains all of the program information #1 to program information #3 on the management level 3. By conducting reproduction on the basis of all of the program information #1 to program information #3, it becomes possible for the user to reproduce all AV data recorded on the recording medium. Play list unified information contains all of the play list information #1 to play list information #n on the management level 2. By conducting reproduction on the basis of all of the play list information #1 to play list information #n on the management level 2, it becomes possible for the user to successively reproduce all registered play lists. User-defined unified information #1 to user-defined unified information #m contain arbitrary one or more from among play list information pieces on the management level 2 and program information pieces on the management level 3. For example, when a plurality of users use a single recording medium, it becomes possible to manage reproduced contents that meet respective users' tastes by using one user-defined unified information every user.

[0033] An embodiment of a recording and reproducing device according to the present invention will be described more specifically by using another drawing.

[0034] Fig. 3 is a block diagram showing an example of a recording and reproducing device according to the present invention. A recording and reproducing device capable of receiving digital broadcast, recording the digital broadcast on a recording medium, reproducing recorded data, and obtaining a reproduced output is shown. Reference numeral 300 designates a recording and reproducing device, 301 an input terminal supplied with a received wave from an antenna, 3011 an input terminal supplied with compressed video and audio data from another device, 3012 an analog video input terminal supplied with an analog video signal, 3013 an analog audio input terminal supplied with an analog audio input terminal, 333 and 334 analog/digital (A/D) conversion circuits each of which converts an analog signal to a digital signal, 302 a demodulation circuit, 330 a separation circuit which separates the demodulated digital signal into audio, video and other data, 335 a compression circuit which compresses digitized video and audio signals, 303 a recording unit signal processing circuit, 331 an encryption circuit which encrypts data to be recorded, 304 a recording and reproducing unit including a drive function of a recording medium, 305 a recording medium, 332 a decryption circuit which decrypts data encrypted and recorded on

the recording medium, 306 a reproducing unit signal processing circuit, 307 a switchover circuit, 308 a separation circuit, 309 a video decoding circuit, 310 a digital/analog (D/A) conversion circuit, 311 a video output terminal, 312 an audio decoding circuit, 313 a D/A conversion circuit, 314 an audio output terminal, 315 a TV set, 316 a user I/F, 317 a control unit, 318 a system bus, 319 an OSD generation unit, and 320 an addition circuit.

[0035] At the time of recording, a signal transmitted by digital broadcast or the like and received is demodulated in the demodulation circuit 302 by using a predetermined scheme, subjected to necessary signal processing such as timing adjusting data addition and modulation in the recording unit signal processing circuit 303, encrypted in the encryption circuit 331, and then recorded on the recording medium 305 by the recording and reproducing unit 304. A digital signal input from the digital input terminal 3011 is subjected to necessary signal processing such as timing adjusting data addition and modulation in the recording unit signal processing circuit 303, encrypted in the encryption circuit 331, and then recorded on the recording medium 305 by the recording and reproducing unit 304. An analog video signal input from the analog video input terminal 3012 and an analog audio signal input from the analog audio input terminal 3013 are subjected to compression processing in the compression circuit 335, encrypted in the encryption circuit 331 via the recording unit signal processing circuit 303, and then recorded on the recording medium 305 by the recording and reproducing unit 304.

[0036] At the time of reproducing, encrypted digital data read out from the recording medium 305 via the recording and reproducing unit 304 in accordance with the user's order is decrypted in the decryption circuit 332, subjected to signal processing required for reproduction such as demodulation in a form based on a predetermined modulation scheme in the reproducing unit signal processing circuit 103, and sent to the separation circuit 308 via the switchover circuit 307. Resultant video digital data is subjected to predetermined video decoding processing in the video decoding circuit 309, converted to an analog signal in the D/A conversion circuit 310, and then displayed as a monitor output on the TV set 315 via the video output terminal 311. Audio digital data obtained from the separation circuit 308 is subjected to predetermined audio decoding processing in the audio decoding circuit 312, converted to an analog signal in the D/A conversion circuit 313, and then outputted by an audio output mechanism in the TV set 315 via the audio output terminal 314.

[0037] The control unit 317 controls various components in the recording and reproducing device 300 via the system bus 318. Furthermore, the control unit 317 controls the whole device to cause operation based on the user's order input which is inputted via the

user I/F 316 to be conducted. By the way, an order input request to the user or necessary OSD display for the user is implemented by preparing it in the OSD generation unit 319, adding it to an output of the video decoding circuit 309 on a suitable level, and finally outputting it to a monitor screen on the TV set 315.

[0038] The case where each unified information on the management level 1 is used for menu display of recording data will now be described as a specific use example of the management information configuration in Fig. 1.

[0039] Fig. 4 shows an example in which menu display is conducted by using the original unified information shown in Fig. 1. Reference numeral 315 designates the TV set shown in Fig. 3, 401 a tag for displaying all programs, 402 a thumbnail indicating program information #1, 403 a thumbnail indicating program information #2, and 404 a thumbnail indicating program information #3. The user moves a cursor position on the screen to a desired thumbnail and conducts selection and determination by using a remote controller or the like. As a result, the user can reproduce arbitrary programs or all programs.

[0040] Fig. 5 shows an example in which menu display is conducted by using the play list unified information shown in Fig. 1. Reference numeral 501 designates a tag for displaying all play lists, 502 a thumbnail indicating play list information #1, and 503 a thumbnail indicating play list information #2. In the same way as the above-described case, the user moves a cursor position on the screen to a desired thumbnail and conducts selection and determination by using a remote controller or the like. As a result, the user can reproduce arbitrary play lists or all play lists. By the way, display switching from the all program display tag 401 to all play list display tag can be implemented by, for example, movement of the cursor in tag character positions conducted by the user.

[0041] Fig. 6 shows an example in which menu display is conducted by using the user-defined unified information #1 shown in Fig. 1. Reference numeral 601 designates a menu display tag for user #1 (who is supposed to be “mother” here). As appreciated from Fig. 1, reference numerals 402 and 502 designate thumbnails indicating the program information #1 and the play list information #1, respectively. The “mother” can use the menu display tag for mother 601 as a folder dedicated to herself, and freely register and delete data to be reproduced. In the same way, Fig. 7 shows an example in which menu display is conducted by using the user-defined unified information #2 shown in Fig. 1. Reference numeral 701 designates a menu display tag for user #2 (who is supposed to be “father” here). As appreciated from Fig. 1, reference numerals 503 and 502 designate thumbnails indicating the play list information #2 and the play list information #1, respectively. In this case, the

“father” selects two play lists. However, the reproduction sequence of them can be altered. In the same way as the “mother,” the “father” can use the menu display tag for father 701 as a folder dedicated to himself, and freely register and delete data to be reproduced.

[0042] As heretofore described, in the embodiment of the present invention, a unit of management for managing all registered play list information and an upper management hierarchical level are added. The unit of management is adapted to be handled on the same level with unified information that indicates a reproduction range of all AV data. User-defined unified information is adapted to be handled on the added management hierarchical level. The user-defined unified information is formed to allow arbitrary reproduction ranges contained on a lower hierarchical level to be registered therein. As a result, it becomes possible for the user to select arbitrary play lists or reproduction ranges and conduct management. Even in the case where a plurality of users share a single recording medium, therefore, each user can manage favorite reproduction contents, resulting in improved usage.

[0043] In the embodiment heretofore described, the case where digital broadcast is received and digital data is recorded intact has been described. However, this is not restrictive. A configuration having a network I/F to acquire AV data from an external network or having coding unit to conduct recording onto the recording medium while coding analog data may also be used. In other words, the present embodiment refers to data management on the recording medium, and its input route is not especially restricted.

[0044] Fig. 8 shows an example of file configurations used to actually record the program, program information, play list information, original unified information, play list unified information, and user-defined information on the recording medium 305 (Fig. 3). The recording medium is a medium on which digital recording and reproducing are conducted. Files on the medium are managed by a file system similar to that used to manage a recording medium in the so-called personal computer or the like. In Fig. 8, “ROOT” 800 represents a highest hierarchical level of a file directory. “TV_REC” 801 is a directory under the highest hierarchical level. “TVREC.MAN” 802, “PGRG.IFO” 803, “PGR.IFO” 804, “PROG0001.TS” 805, ... of files which implement the management structure shown in Fig. 1 according to the present invention are recorded in the “TV_REC” 801. In the “TVREC.MAN” 802, the original unified information, the play list unified information, and the user-defined unified information #1 to #m on the management level 1 shown in Fig. 1 are described as management tables. In the “PGRG.IFO” 803, the play list information #1 to the play list information #n on the management level 2 shown in Fig. 1 are recorded as management tables. In the “PGR.IFO” 804, the program information #1 to the program

information #3a on the management level 3 shown in Fig. 1 are recorded as management tables. "PROG0001.TS" 805, "PROG0002.TS" 806 and "PROG0003.TS" 807 are entity files of AV data in each program. For example, AV data between recording start and recording end of one time is recorded in the "PROG0001.TS." AV data between recording start and recording end of the next time is recorded in the "PROG0002.TS." In this way, the file name is updated and recording is conducted. Thereafter, the management files 802 to 804 are updated.

[0045] The file structure and the configuration of management tables themselves concerning the management structure "TVREC.MAN" 802, "PGRG.IFO" 803, "PGR.IFO" 804, "PROG0001.TS" 805, ... of files may be formed by using any method. However, an example of how to implement the management configuration in the case of Fig. 1 using the files will now be described.

[0046] Fig. 9 shows a configuration of management tables of the "TVREC.MAN" 802 (Fig. 8). As original unified information 901, the number of AV data recorded as the number of program information pieces 9011, i.e., the total number (three in this case) of entity files ("PROG0001.TS" 805, "PROG0002.TS" 806 and "PROG0003.TS" 807) of the AV data is described. Under the original unified information 901, location tables 9012 of respective original program information pieces are recorded. As play list unified information 902, play list location information tables are recorded in 9021 and subsequent tables. In 9031, the number of user-defined unified information pieces is recorded. After that, contents of #1 to #m of the user-defined information are recorded.

[0047] Fig. 13 shows contents of the user-defined information #m described above. The user-defines information #m has combinations of original program information and play list information as a table.

[0048] Fig. 10 shows a management table of the "PGRG.IFO" 803 (Fig. 8), which corresponds to the management level 2 shown in Fig. 1. As play list information 1001, the total number of the play list information pieces is first described as designated by 10011. (In this case, the total number of the play list information pieces is n.) Beginning with 10012 indicated under the reference numeral 10011, locations in which contents of the play list information #1 to #n are described are recorded as tables. Beginning with 10013, contents of the play list information #1 to #n (contents of the reproduction sequence, which are management tables having combinations of program information indicating the reproduction start location and reproduction end location of AV data described later) are recorded.

[0049] Fig. 11 shows a management table of the “PGR.IFO” 804 (Fig. 8), which corresponds to the management level 3 shown in Fig. 1. As program information 1101, the total number of the program information pieces including all of the program information pieces paired with the original information program #1, #2 and #3 (Fig. 1) and the user-defined program information #2a and #3a (Fig. 1) is recorded as designated by 11011. Beginning with 11012 indicated under the reference numeral 11011, tables indicating locations in which contents of the program information #1 to #3a are described are recorded. Beginning with 11013, contents of the program information #1 to #3a (describing the reproduction start location and reproduction end location of the “PROG0001.TS” 805, “PROG0002.TS” 806 and “PROG0003.TS” 807 (Fig. 8)) are recorded.

[0050] By conducting the management as heretofore described, it becomes possible to sort the location information, for example, in the play list location table 9021 and alter the sequence of displaying play lists on a GUI view from the state shown in Fig. 5 to the state shown in Fig. 12. In the case where the number of play lists has become very large, a play list that is high in user’s use frequency can be displayed in the first place in the GUI view. As a result, it is possible to implement a usable recording and reproducing device, reproducing device, or recording method. For example, a plurality of users can set play lists that they want to view and recorded original contents freely and individually. Even when the number of recorded programs is very large, the user can rapidly find out a program that the user wants to view, because the user can refer to a folder defined by the user.

[0051] In the present embodiment, a clear distinction is made between the user-defined play list unified information and the user-defined unified information #1 to #m. The user-defined play list unified information may be defined as user-defined play list unified information having no link to the original program information of the user-defined unified information.

[0052] It should be further understood by those skilled in the art that although the foregoing description has been made on embodiments of the invention, the invention is not limited thereto and various changes and modifications may be made without departing from the spirit of the invention and the scope of the appended claims.

FIG.1

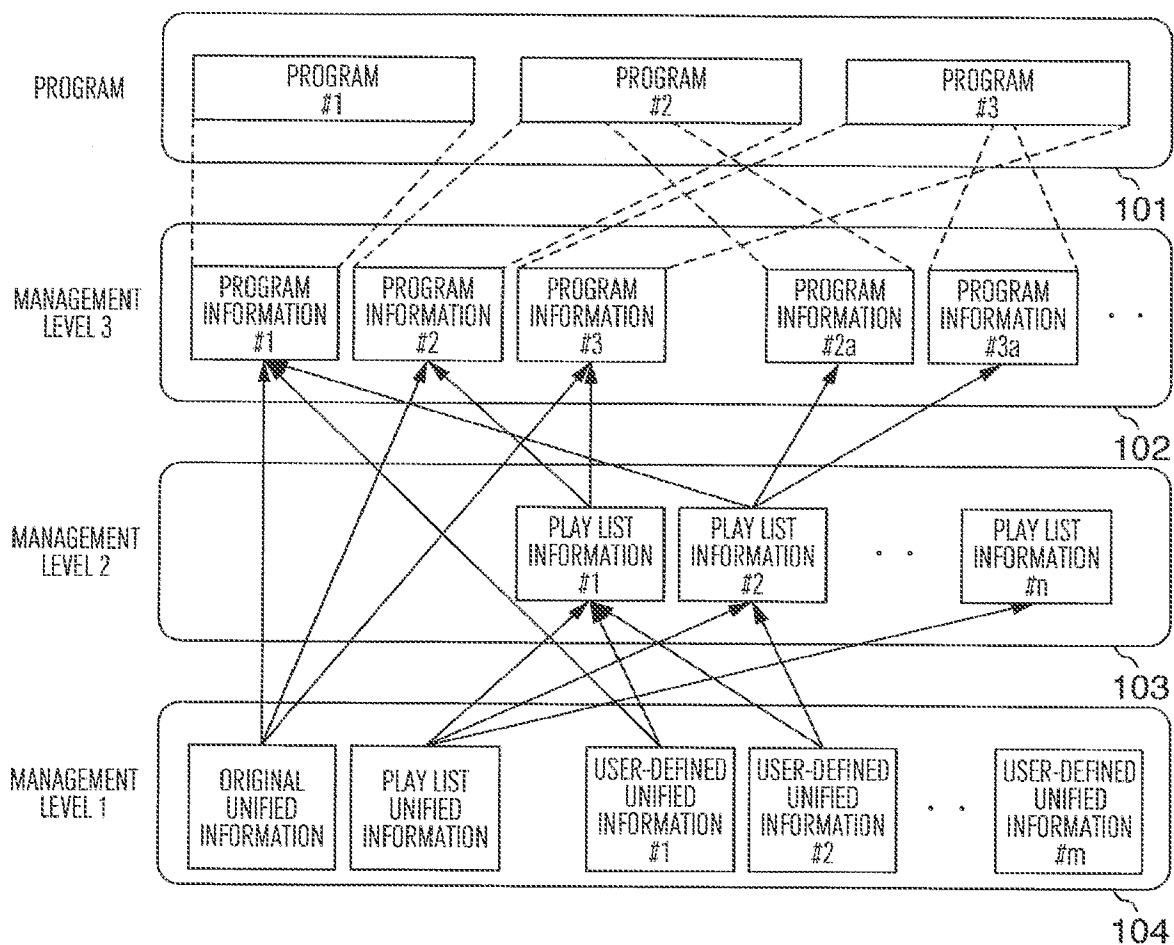


FIG.2
PRIOR ART

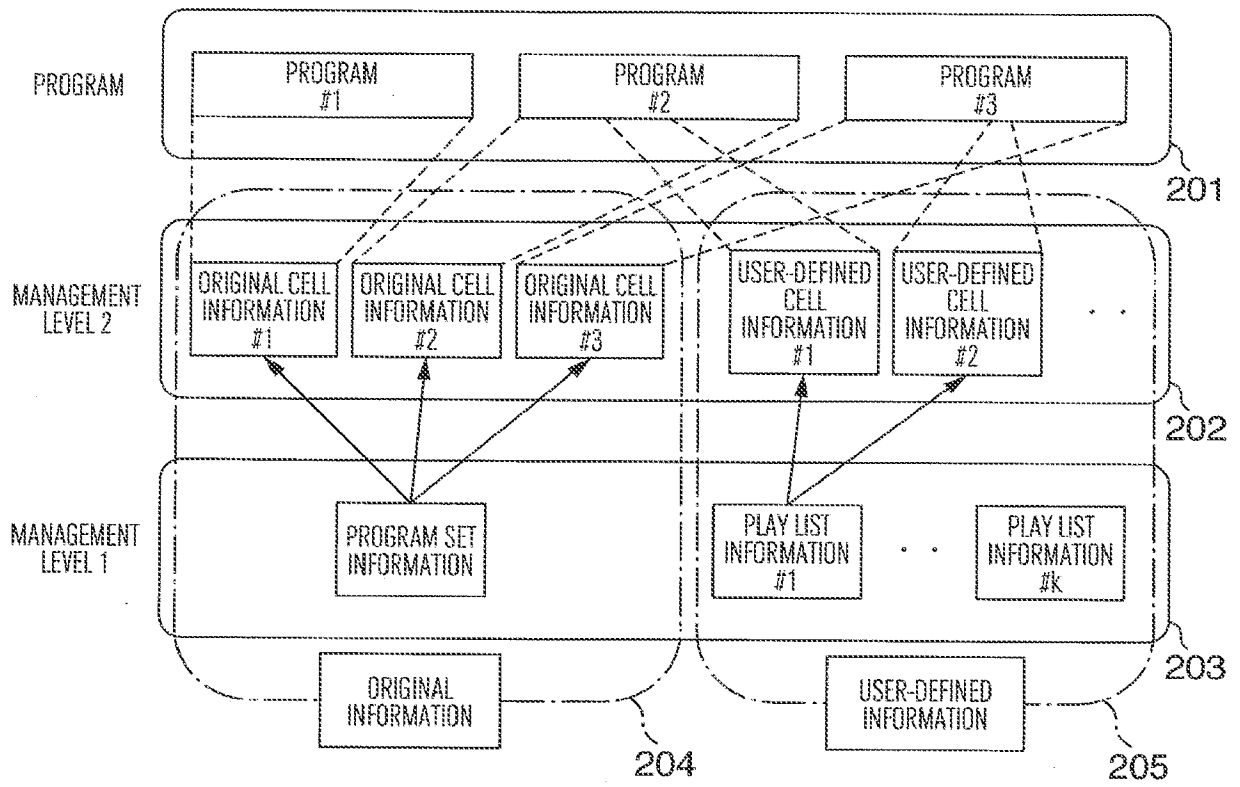


FIG.3

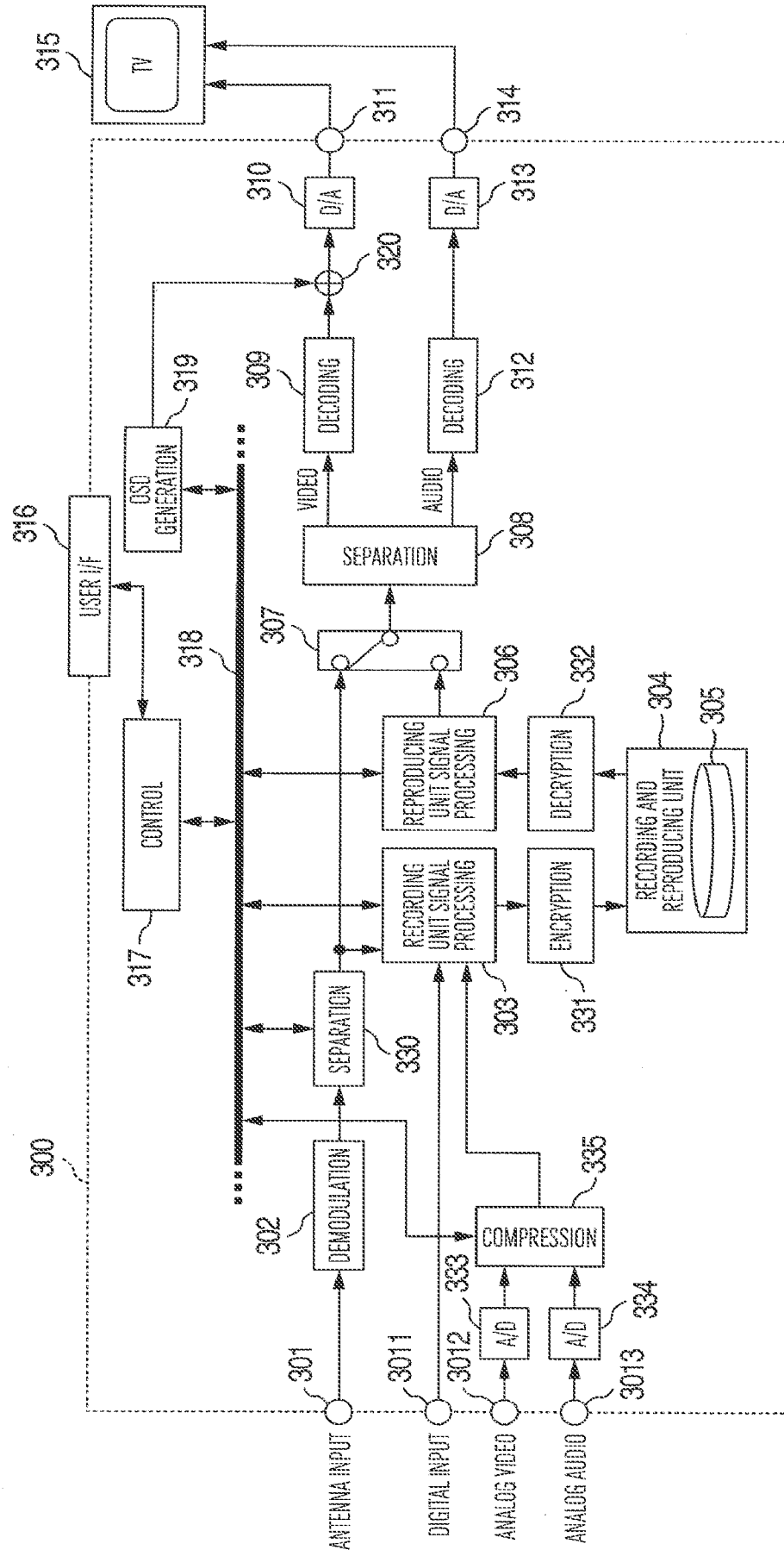


FIG.4

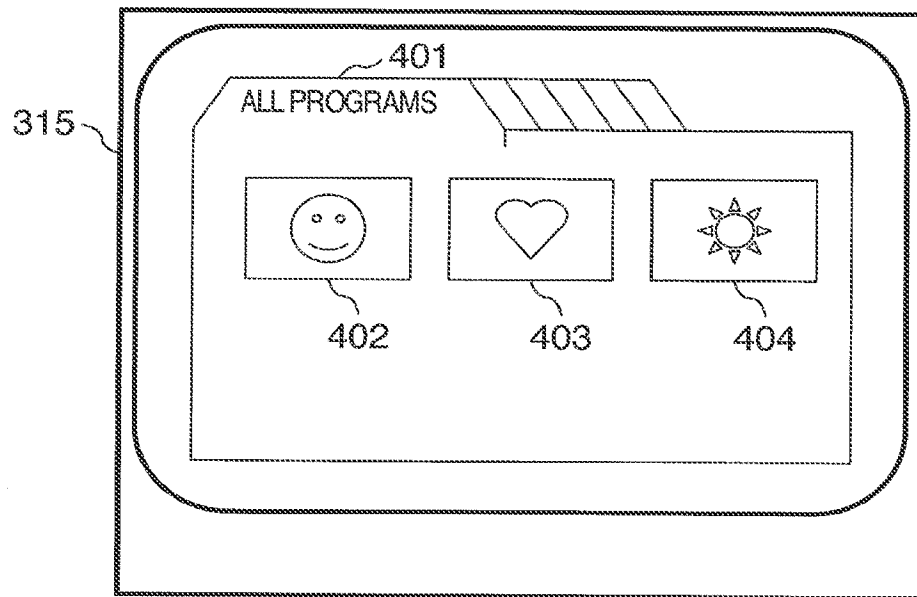


FIG.5

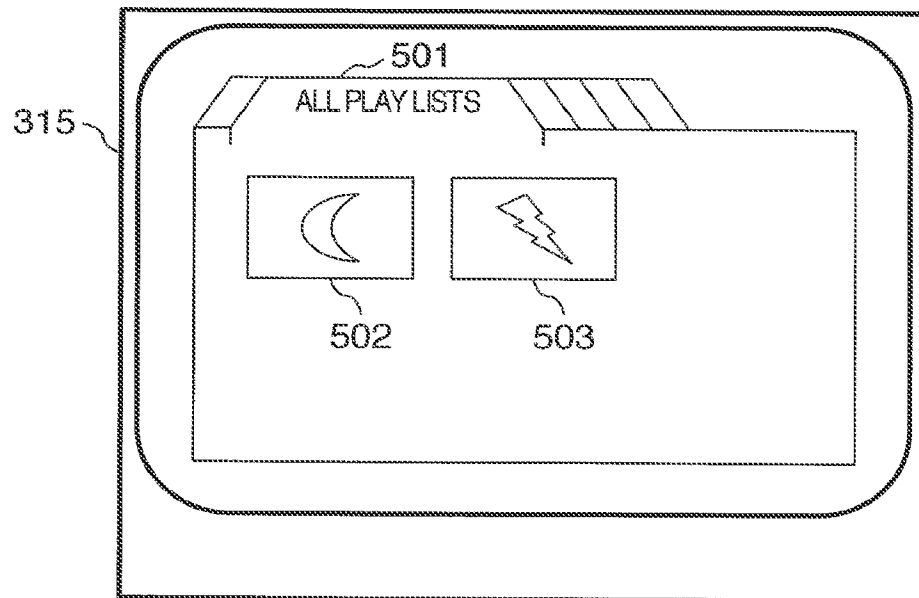


FIG.6

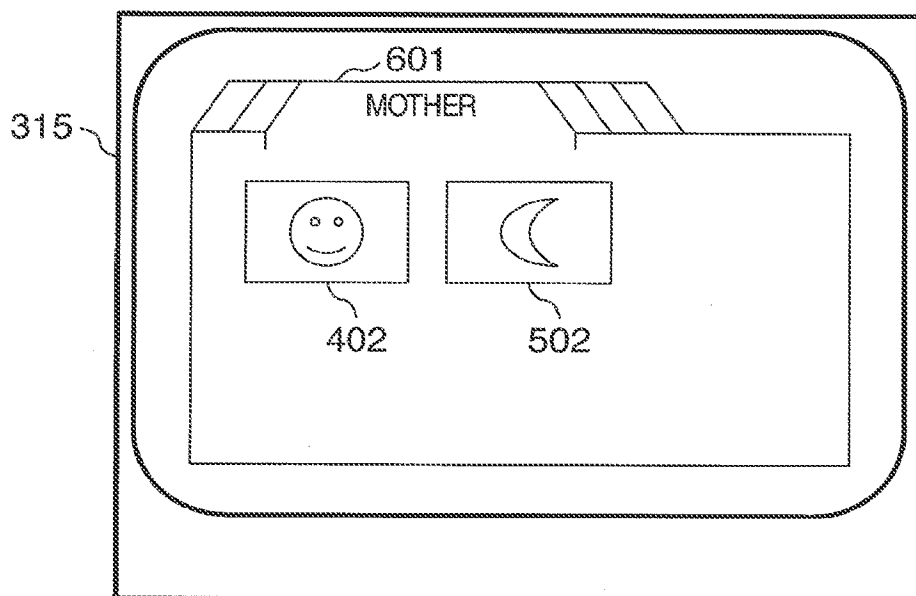


FIG.7

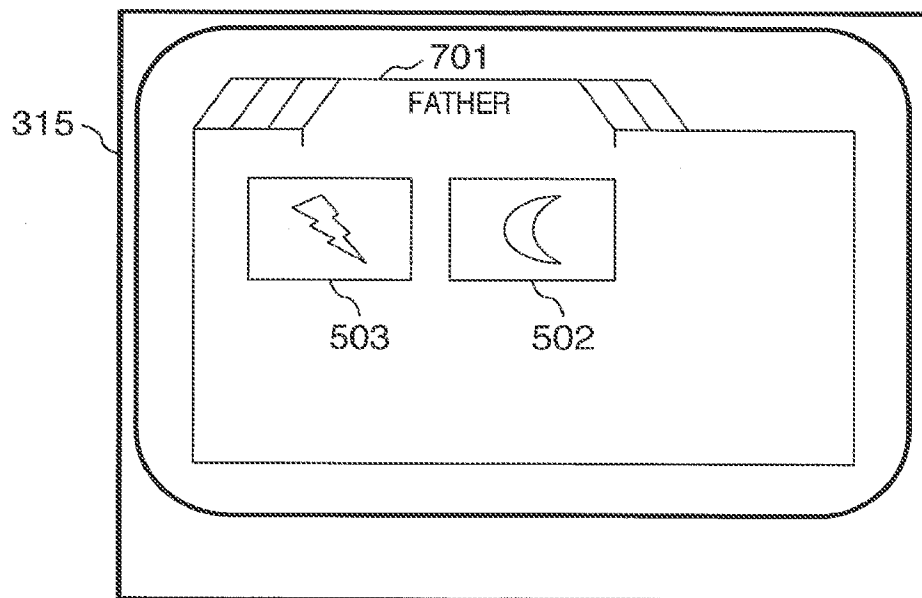


FIG.8

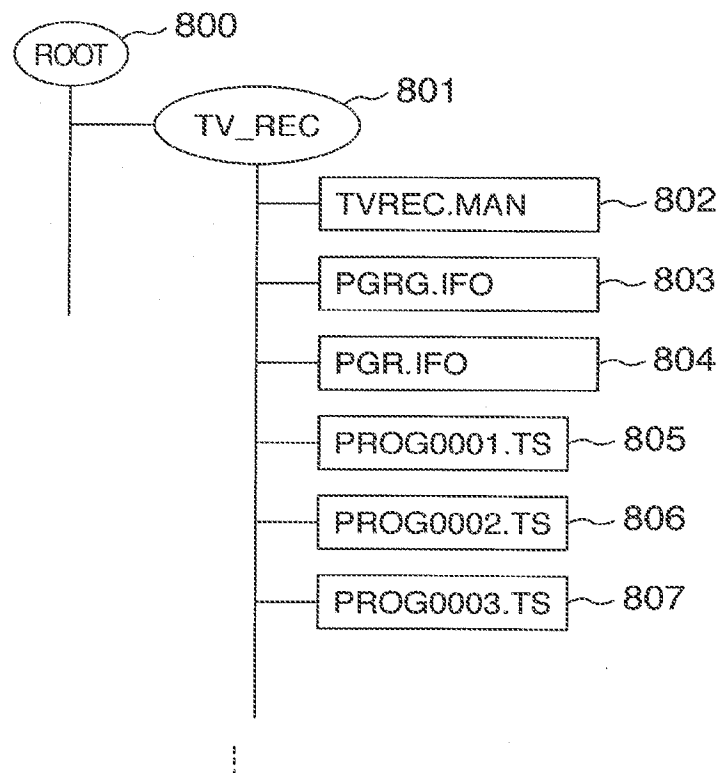


FIG. 9

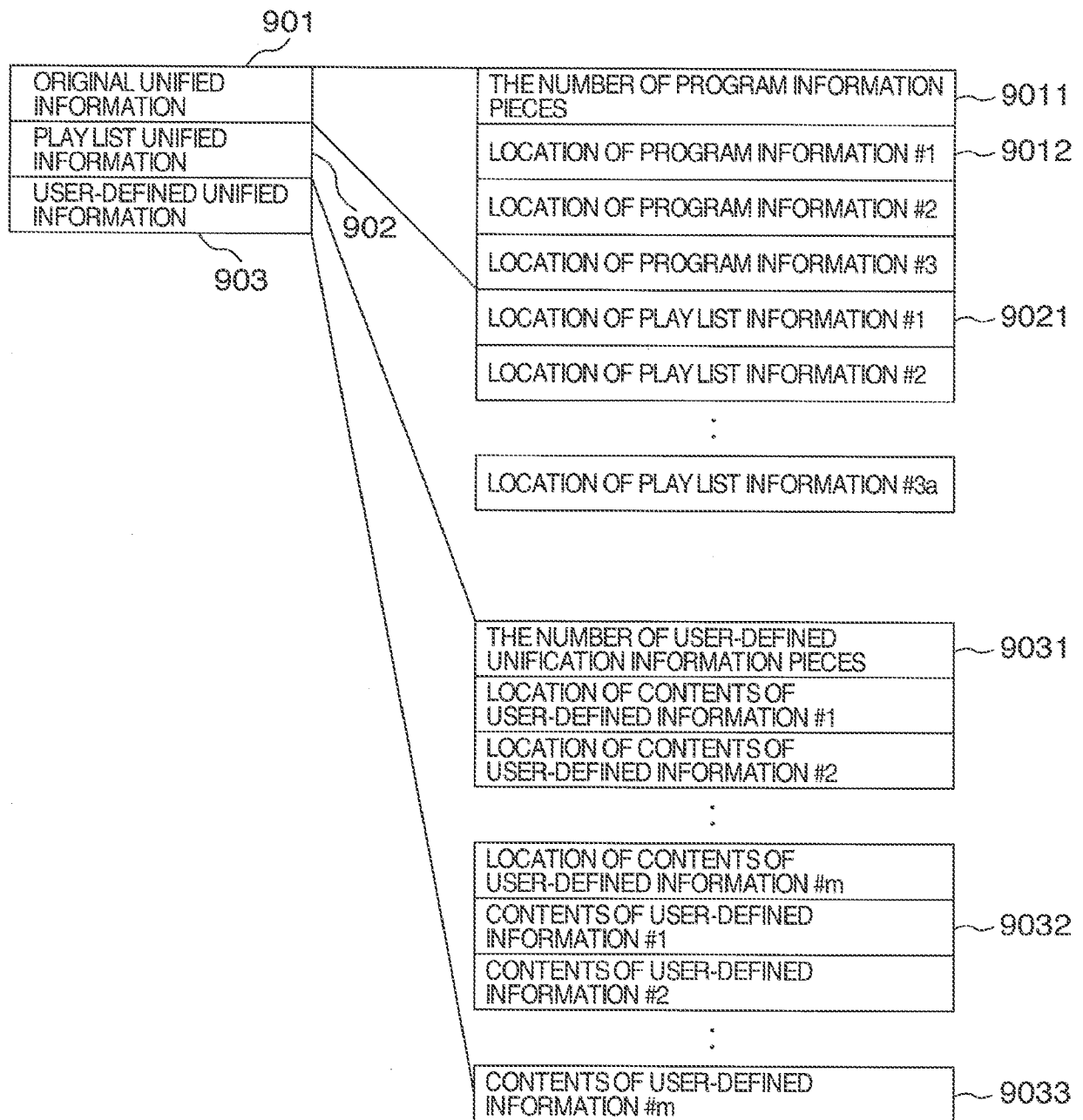


FIG. 10

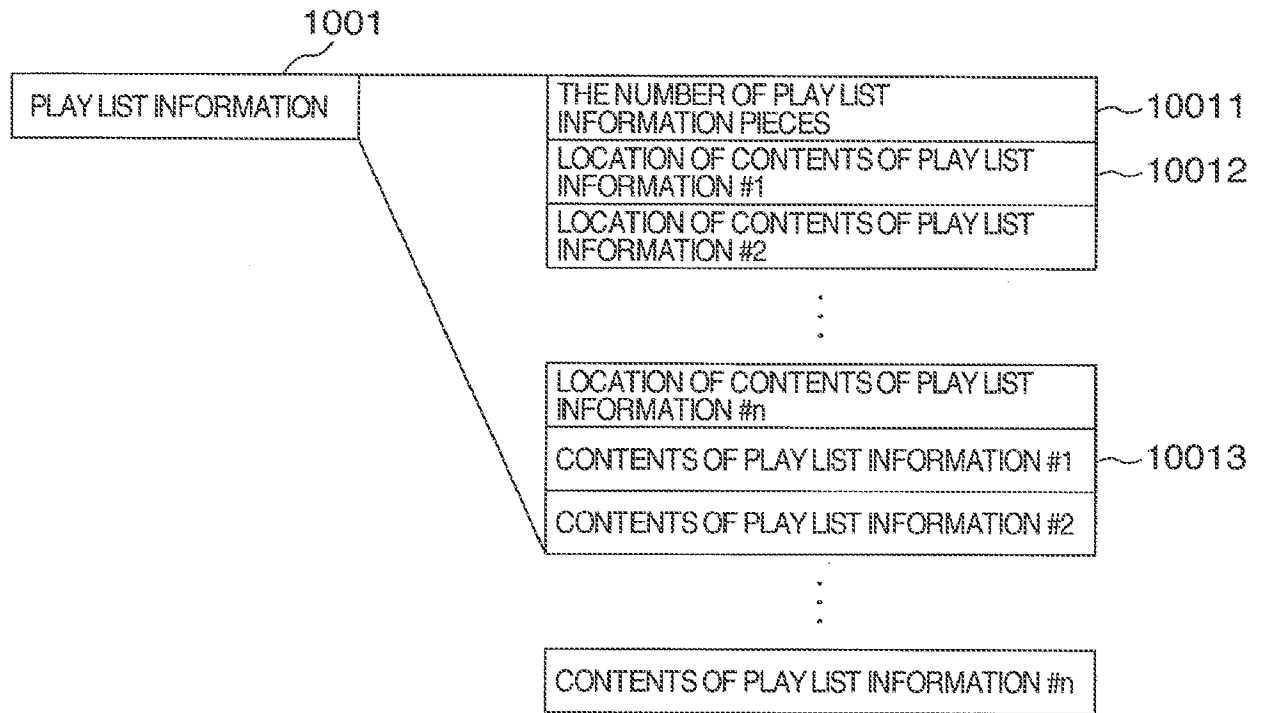


FIG. 11

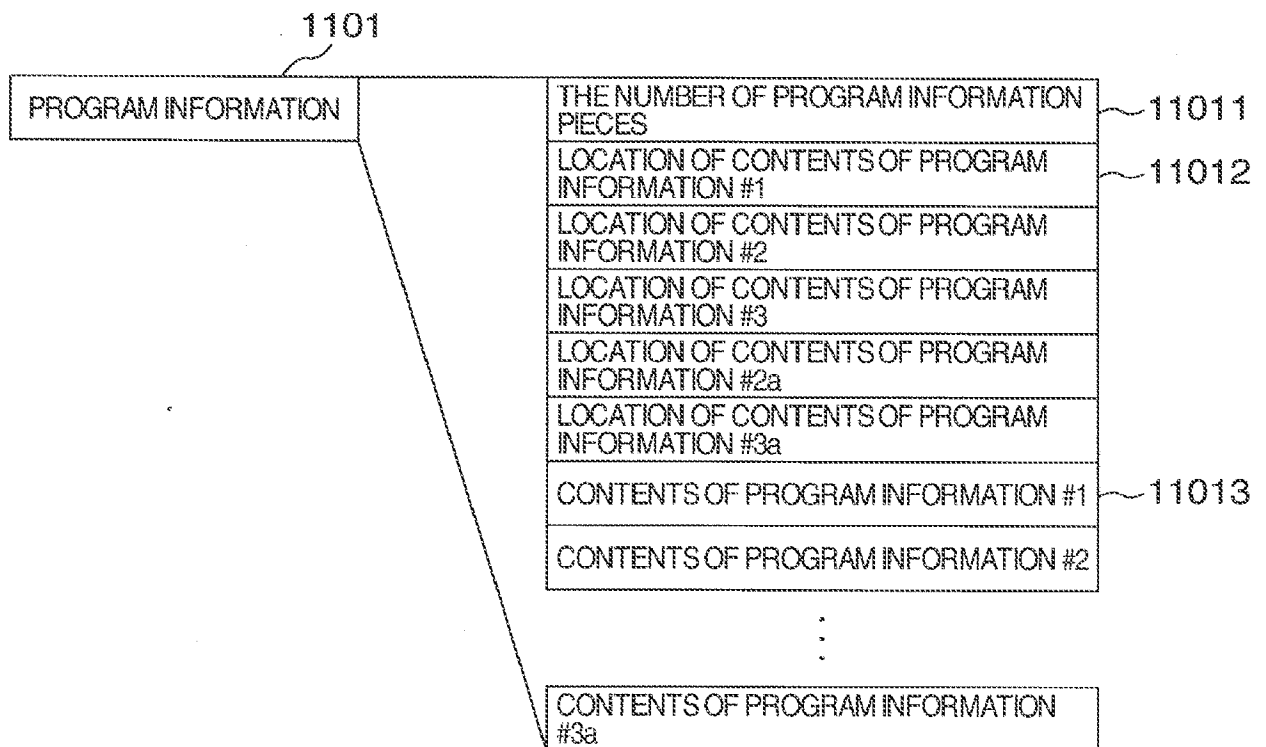


FIG.12

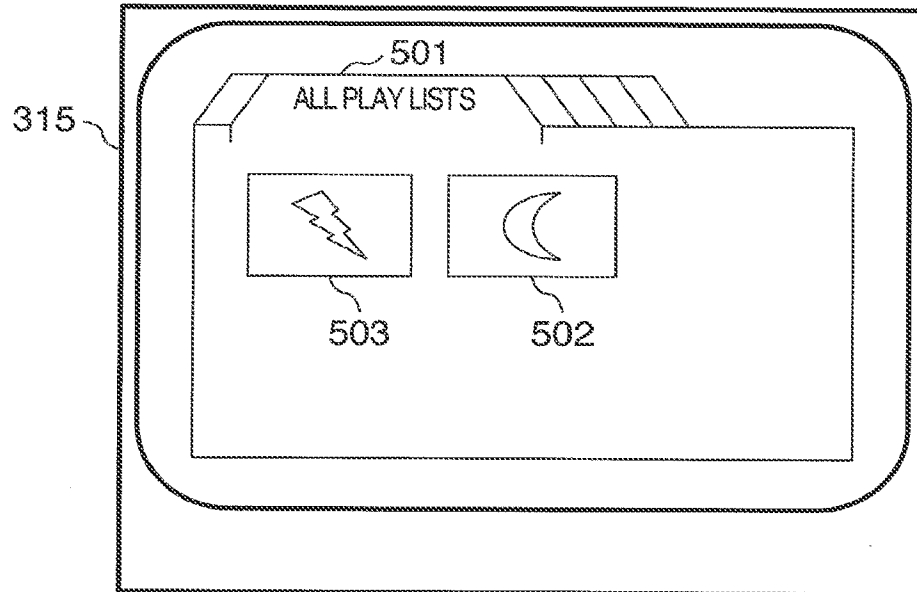
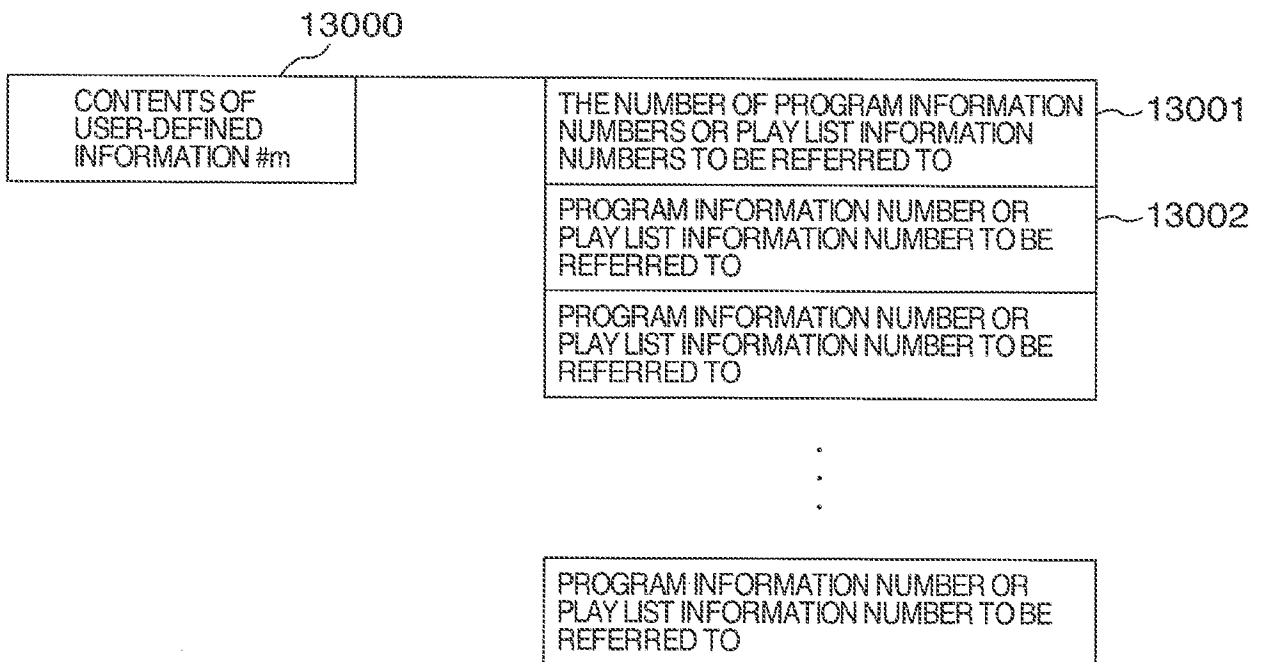


FIG.13



Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		EDITING METHOD AND RECORDING AND REPRODUCING DEVICE		
First Named Inventor/Applicant Name:		Susumu YOSHIDA		
Filer:		John Roberts Mattingly/Krista Hargrove		
Attorney Docket Number:		ASA-10782-07		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	300	300
UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	1202	7	100	700
INDEPENDENT CLAIMS IN EXCESS OF 3	1201	1	460	460
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				2880

Electronic Acknowledgement Receipt

EFS ID:	39530462
Application Number:	16883124
International Application Number:	
Confirmation Number:	1504
Title of Invention:	EDITING METHOD AND RECORDING AND REPRODUCING DEVICE
First Named Inventor/Applicant Name:	Susumu YOSHIDA
Customer Number:	24956
Filer:	John Roberts Mattingly/Krista Hargrove
Filer Authorized By:	John Roberts Mattingly
Attorney Docket Number:	ASA-10782-07
Receipt Date:	26-MAY-2020
Filing Date:	
Time Stamp:	14:37:46
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$2880
RAM confirmation Number	E20205PE38212151
Deposit Account	501417
Authorized User	Krista Hargrove

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37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	10782-07_ADS-.pdf	1823630	no	9
			7a835a693e22f103a6af800f786b62895ed40a1a		
Warnings:					
Information:					
2	Transmittal Letter	10782-07_IDS_TRNA.pdf	16115	no	2
			df31b71310b83363a619110a15b4dfe7e4210c69		
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	10782-07_IDS_SB08A-.pdf	1038366	no	14
			ef27927612a00ae11f73173d7e73860fcc801f40		
Warnings:					
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4	Power of Attorney	10782-07_POA-.pdf	442976	no	4
			c8e0eafc2d33244bdd31796005035ab7cd9495ee		
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5		10782-07_SPEC-.pdf	961568	yes	24
			4f458a85a59f51c89c5b4f496d7ad3873f6ab37c		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Abstract		24	24	
	Claims		11	23	
	Specification		1	10	

Warnings:					
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6	Oath or Declaration filed	10782-07_DEC.pdf	299498	no	4
			9ce57608353b83a145dc50923980386b9a880e5b		
Warnings:					
Information:					
7	Drawings-only black and white line drawings	10782-07_DWG.pdf	827205	no	9
			5e2a800f1bd5827e37b1c38fa5b691876ee211a8		
Warnings:					
Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	38187	no	2
			ffdcf3275426387bf3fa04b97365789d4248733e		
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Total Files Size (in bytes):			5447545		
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	ASA-10782-07
		Application Number	
Title of Invention	EDITING METHOD AND RECORDING AND REPRODUCING DEVICE		
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.			

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☐ 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 Name	Family Name	Suffix	
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Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service					
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Inventor	2				Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Junji		SHIOKAWA		
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service					
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City	Tokyo	State/Province			
Postal Code	100-8220	Country ⁱ	JP		
Inventor	3				Remove
Legal Name					

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	ASA-10782-07
		Application Number	
Title of Invention	EDITING METHOD AND RECORDING AND REPRODUCING DEVICE		

Prefix	Given Name	Middle Name	Family Name	Suffix
	Hiroo		OKAMOTO	
Residence Information (Select One) US Residency ☒ Non US Residency Active US Military Service				
City	Yokohama		Country of Residence ⁱ	JP

Mailing Address of Inventor:

Address 1	c/o Hitachi, Ltd., Intellectual Property Group			
Address 2	6-6, Marunouchi 1-chome, Chiyoda-ku			
City	Tokyo	State/Province		
Postal Code	100-8220	Country ⁱ	JP	
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.com	Add Email	Remove Email

Application Information:

Title of the Invention	EDITING METHOD AND RECORDING AND REPRODUCING DEVICE		
Attorney Docket Number	ASA-10782-07	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	9	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 ⁱ

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	ASA-10782-07
		Application Number	
Title of Invention	EDITING METHOD AND RECORDING AND REPRODUCING DEVICE		

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.

Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	24956		

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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	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
	Continuation of	16221908	2018-12-17		
Prior Application Status	Pending	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
16221908	Continuation of	15808175	2017-11-09		
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15808175	Continuation of	15176435	2016-06-08	9818449	2017-11-14
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15176435	Continuation of	14141417	2013-12-26	9384783	2016-07-05

Application Data Sheet 37 CFR 1.76		Attorney Docket Number		ASA-10782-07	
		Application Number			
Title of Invention		EDITING METHOD AND RECORDING AND REPRODUCING DEVICE			
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14141417	Continuation of	12567898	2009-09-28	8644684	2014-02-04
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12567898	Continuation of	11203457	2005-08-11	7613383	2009-11-03
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.					Add

Foreign Priority Information:

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).

Application Number		Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)	Remove
2004-378767		JP	2004-12-28		
Application Number		Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)	Remove
2004-378768		JP	2004-12-28		
Application Number		Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)	Remove
2004-349264		JP	2004-12-02		
Additional Foreign Priority Data may be generated within this form by selecting the 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.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number ASA-10782-07	
	Application Number	
Title of Invention	EDITING METHOD AND RECORDING AND REPRODUCING DEVICE	

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 **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** 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. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** 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. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** 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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	ASA-10782-07
		Application Number	
Title of Invention	EDITING METHOD AND RECORDING AND REPRODUCING DEVICE		

Applicant 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.

Applicant	1	Remove
------------------	---	---------------------------------------

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

☒ Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
---	--	----------------

Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest
---	--

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Maxell, Ltd.
-------------------	--------------

Mailing Address Information For Applicant:

Address 1	1, Koizumi, Oyamazaki, Oyamazaki-cho Otokuni-gun		
Address 2			
City	Kyoto	State/Province	
Country	JP	Postal Code	618-8525
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	ASA-10782-07
		Application Number	
Title of Invention	EDITING METHOD AND RECORDING AND REPRODUCING DEVICE		

Assignee	1			
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.				
				Remove
If the Assignee or Non-Applicant Assignee is an Organization check here.				☐
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1				
Address 2				
City		State/Province		
Country ⁱ		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				Add

Signature:

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 (YYYY-MM-DD)	2020-05-26
First Name	John	Last Name	Mattingly	Registration Number
				30293
Additional Signature may be generated within this form by selecting the Add button.				Add

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	ASA-10782-07
		Application Number	
Title of Invention	EDITING METHOD AND RECORDING AND REPRODUCING DEVICE		

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.**

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 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 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 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) : S. YOSHIDA, et al. Confirmation No.: TBD
Serial No. : To be assigned
Filed : May 26, 2020
For : EDITING METHOD AND RECORDING AND REPRODUCING
DEVICE
Group : To be assigned
Examiner : To be assigned
Docket No. : ASA-10782-07
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

May 26, 2020

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. 16/221,908, filed December 17, 2018, 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

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

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)

発明の名称

Title of Invention

EDITING METHOD AND RECORDING AND
REPRODUCING DEVICE

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



宛てられています。

United States application or PCT international application

number

14/141417

filed on

December 26, 2013

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の発明者、あるいは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:

SUSUMU YOSHIDA

署名:

Signature:

Susumu Yoshida

日付(任意):

Date (Optional):

Feb. 17, 2014

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.

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☐ 添付されている、あるいは
The attached application, or

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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: JUNJI SHIOKAWA

署名:

Signature:

Junji Shiohawa

日付(任意):

Date (Optional):

Feb. 25, 2014

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。

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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宣言書(37 CFR 1.63)

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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



宛てられています。

United States application or PCT international application

number

14/141417

filed on

December 26, 2013

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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の発明者、あるいはもとの共同発明者です。

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I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

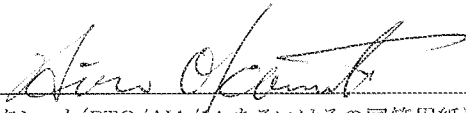
発明者の正式氏名:

LEGAL NAME OF INVENTOR:

HIROO OKAMOTO

署名:

Signature:



日付(任意):

Date (Optional):

Feb. 25, 2014

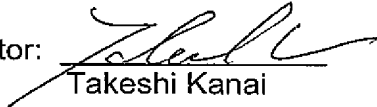
備考: 出願データシート(PTO/AIA/14 あるいはその同等用紙)は、発明の自主独立体全体の命名を含め、本用紙に添付すること。なお残余の発明者ごとにこの用紙の写しを使用する。

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.

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 July 17, 2014

Signature of Translator: 
Takeshi Kanai