505273455 01/11/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RYUICHI KANOH	08/27/2018
TADAMASA TOMA	08/09/2018
KIYOFUMI ABE	08/09/2018
TAKAHIRO NISHI	08/09/2018

RECEIVING PARTY DATA

Name:	PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA	
Street Address:	20000 MARINER AVENUE	
Internal Address:	SUITE 200	
City:	TORRANCE	
State/Country:	CALIFORNIA	
Postal Code:	90503	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16023538

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email: epas.pkp@ml.jp.panasonic.com

Correspondent Name: PASONA KNOWLEDGE PARTNER INC.

Address Line 1: 8F OBP PANASONIC TOWER

Address Line 2: 1-61, SHIROMI 2-CHOME, CHUO-KU

Address Line 4: OSAKA, JAPAN 540-6208

ATTORNEY DOCKET NUMBER:	P1009594US02
NAME OF SUBMITTER:	ASAMI KATO
SIGNATURE:	/Asami KATO/
DATE SIGNED:	01/11/2019

Total Attachments: 2

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PATENT REEL: 047961 FRAME: 0842

Panasonic Ref*:	P1009594US02	Application Serial No	. 16/023538	
Japan Firm Name:	Nii Patent Firm	Japan Firm Ref:	FP18352US	
US Firm Name*:	WLP	US Firm Ref:	2018-1024A	
(* must be filled)				

ASSIGNMENT

WHEREAS, the undersigned has (have) invented the invention entitled:			
Box 1			
Title of Invention:			
CODING METHOD, DECODING METHOD, ENCODER, AND	DECODER		
1. For use when signing Declaration prior to filing U	J.S. patent application (check on	y one box below)	
(a) for which an application for U.S. natant has been executed	by the undersigned conc	irrently herewith, or	
(a) I for which are application for 0.3. patent has been executed	(a)□ for which an application for U.S. patent has been executed by the undersigned concurrently herewith, or		
(b)□ for which an application for U.S. patent has been executed	on the following date(s):_	, or	
(if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank; if the	e Declaration was signed before this Assi	gnment, enter the date(s) on which you signed the Declaration)	
(c)□ for which an International Application has been filed as:	DCT Application No.	and	
(for the PCT-US national entry, check only (c) and enter PCT application number in the right)	PCT Application No.	and,	
2. For use when signing Declaration	n after filing U.S. patent application	on	
(d)■ for which an application for U.S. patent has been filed on:	Application Filing Date	June 29, 2018 and,	
	l		

title, and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and intended to be legally bound hereby, the undersigned, by these presents, does sell, assign and transfer unto said Assignee(s) the entire and exclusive right, title and interest in and to; (i) said invention in the United States of America, its territories, dependencies and possessions (hereinafter designated as the United States) and in all countries foreign to the United States; and (ii) this patent application and any and all related patent application(s) disclosing said invention, including provisionals, non-provisionals, conversions, divisions, continuations, continuations-in-part and reissues thereof in the United States and all countries foreign to the United States (hereinafter designated as "Related Applications"), along with all rights of priority created by this patent application under any treaty relating thereto; and (iii) any and all Letters Patent(s), including all renewals, extensions, reissues and reexamination certificates which may be granted therefore, and all rights to sue for past and future infringement thereunder, in the United States and in all countries foreign to the United States for the full term or terms thereof.

The undersigned agree(s) to execute all papers necessary in connection with this application and any and all Related Applications thereof, all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, all papers necessary in connection with any interference which may be declared concerning this application or any and all Related Applications thereof and to cooperate with the Assignee(s) in every way possible in obtaining and producing evidence and proceeding with such interference, and for any and all litigations regarding, or for the purpose of protecting the right, title and interest in and to said invention, this application and any and all Related Applications or Letters Patent(s) therefore, and to testify in any legal proceeding relating thereto and in support thereof, for the benefit of Assignee(s), and also to execute separate assignments in connection with such applications as the Assignee(s) may deem necessary or expedient.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States and any foreign patent(s) to the Assignee(s) and to vest all rights hereby conveyed to the Assignee(s) as fully and entirely as the same would have been held by the undersigned if this Assignment had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents, and officials of all foreign countries, whose duty is to issue patents, to issue any and all Letters Patent(s) resulting from said application or any and all Related Applications thereof to said Assignee(s) and hereby covenants that the undersigned has (have) full right to convey the entire interest herein assigned, and that the undersigned has (have) not executed, and will not execute, any assignment, sale, agreement or encumbrances in conflict herewith.

(have) not executed, and will not execute, any assignment, sale, agreement or encumbrances in conflict herewith.

The undersigned hereby does sell, assign and transfer unto said Assignee(s) the full and exclusive authority for revoking power of attorney(s) executed by the undersigned in connection with this application and for appointing a new power of attorney in place thereof.

The undersigned hereby grant(s) the Assignee(s) and the appointed U.S. patent attorneys and agents the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent Office for recordation of this

The undersigned hereby agree(s) that the above obligations shall apply to the undersigned both individually and collectively.

The undersigned hereby agree(s) that this Assignment shall be construed in accordance with the law of the appropriate jurisdiction within the United States.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s).

Box2	(Each Inventor, please Sign and Date below)		
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(1)	Ryuichi KANOH	Ryzichi Kanth	Month, Date, Year Aug. 27, 2018
(2)	Tadamasa TOMA		Month, Date, Year
(3)	Kiyofumi ABE		Month, Date, Year
(4)	Takahiro NISHI		Month, Date, Year

□Check if additional paper(s) is/are attached. Total of _____ pages are submitted.

Panasonic Ref*: P10	09594US02	Application Serial No.	16/023538
Japan Firm Name: Nii	Patent Firm	Japan Firm Ref:	FP18352US
US Firm Name*: WLI		US Firm Ref:	2018-1024A

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CODING METHOD, DECODING METHOD, ENCODER, AND	DECODER	
For use when signing Declaration prior to filing 0	J.S. patent application (check on	ly one box below)
(a)□ for which an application for U.S. patent has been executed	by the undersigned conci	urrently herewith, or
(b) for which an application for U.S. patent has been executed	on the following date(s):	. or
(if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank; if the		
(-) = for which as International Application has been find as:		
(c)□ for which an International Application has been filed as: (for the PCT-US national entry, check only (c) and enter PCT application number in the right)	PCT Application No.	and,
2. For use when signing Declaration	- effection () C setent applicati	
2. For use when signing Declaration	n aner ming U.S. paterit applicati	UII
(d) for which an application for U.S. patent has been filed on:	Application Filing Date	June 29, 2018 and,
(u) = 101 willon an application for 0.5. patent has been filed on.	Application I ling bate	Julio 20, 2010 and,

its/their heirs, successors, legal representatives and assigns (hereinatter designated as "Assignee(s)") is/are desirous or acquiring the entire title, and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and intended to be legally bound hereby, the undersigned, by these presents, does sell, assign and transfer unto said Assignee(s) the entire and exclusive right, title and interest in and to; (i) said invention in the United States of America, its territories, dependencies and possessions (hereinafter designated as the United States) and in all countries foreign to the United States; and (ii) this patent application and any and all related patent application(s) disclosing said invention, including provisionals, non-provisionals, conversions, divisions, continuations, continuations-in-part and reissues thereof in the United States and all countries foreign to the United States (hereinafter designated as "Related Applications"), along with all rights of priority created by this patent application under any treaty relating thereto; and (iii) any and all Letters Patent(s), including all renewals, extensions, reissues and reexamination certificates which may be granted therefore, and all rights to sue for past and future infringement thereunder, in the United States and in all countries foreign to the United States for the full term or terms thereof.

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Box2	(Each Inventor, please Sign and D	Pate below)	
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(1) ·	Ryuichi KANOH		Month, Date, Year
(2)	Tadamasa TOMA	Sadamore Fine	Month, Date, Year Auf. 9, 2014
(3)	Kiyofumi ABE	Kiyobuni alee	Month, Date, Year Aug. 9, 2018
(4)	Takahiro NISHI	Jakohiro hishi	Aug. 9, 2018

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□Check if additional paper(s) is/are attached. Total of ____ pages are submitted.

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