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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIROSHI OHNO	01/15/2015
TAKASHI USUI	01/16/2015
MITSUAKI KATO	01/19/2015
JUNYA TANAKA	01/16/2015
YOSHINORI MORI	01/16/2015
KAZUYO NARITA	01/16/2015

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14535440

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SIGNATURE: /KIMBERLY BAILEY/

DATE SIGNED: 01/28/2015

Total Attachments: 3 source=0380assn#page1.tif

PATENT REEL: 034826 FRAME: 0432

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U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S))

Kabushiki Kaisha Toshiba

1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan			
(hereinafter, "ASSIGNEE"), the receipt of which is he ASSIGNEE the entire and exclusive right, title and in (Title of Invention)		GNOR hereby sells, assigns and transfers to	
THREE-DIMENSIONAL MODELING HI	EAD AND THREE-DIMENSION	AL MODELING DEVICE	
relating to International Patent Application PCT/JP_even date herewith or, if not so executed, was:	and/or for which application for Letters Po	atent of the United States was executed on	
(a) executed on	; (Insert date of execution of ap	plication, if not concurrent)	
(b) filed on <u>November 7, 2014</u> , Serial No. <u>14/535,440</u> ;	Assignee's attorney is here data, when known.	rby authorized to insert in (b) the specified	
and to said application and all Letters Patent(s) of the substitute, reissue or reexamination application based to including any extensions thereof (collectively, hereina). The ASSIGNOR agree(s), when requested by said which the ASSIGNEE may deem necessary, desirable including in the preparation and prosecution of said agreexamination, or public use proceeding, and in any littacts to include but not be limited to executing all papes sworn testimony, and obtaining and producing evidence. IN WITNESS WHEREOF, the undersigned inventor	hereon, for the full term or terms for which fler, "said application(s) and Letters Patents ASSIGNEE and without charge to but at the or expedient, for securing, maintaining and plication(s) and the issuance of said Letters gation or other legal proceeding which may rs, including separate assignments and declarate.	the said Letters Patent(s) may be granted and (s)"). e expense of said ASSIGNEE, to do all acts enforcing protection for said invention, Patent(s), in any interference, reissue, arise or be declared in relation to same, such arations, taking all rightful oaths, providing	
1) Hiroshis Ohno	Hiroshi OHNO	January 15, 2018	
(Signature)	(Type Name)	(Date)	
2)	Takashi USUI		
2) (Signature)	(Type Name)	(Date)	
	Mitsuaki KATO		
3)(Signature)	(Type Name)	(Date)	
	Junya TANAKA		
(Signature)	(Type Name)		
, 0	Yoshinori MORI	,,	
5)(Signature)	(Type Name)	(Date)	
1 organism by	Kazuyo NARITA	(Date)	
6)	•		
(Signature)	(Type Name)	(Date)	

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S))

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

Kabushiki Kaisha Toshiba

(Title of Invention)

1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan

THREE-DIMENSIONAL MODELING HEAD	O AND THREE-DIMENSIONAL	L MODELING DEVICE
relating to International Patent Application PCT/JP and even date herewith or, if not so executed, was:	I/or for which application for Letters Pate	ent of the United States was executed on
(a) executed on;	(Insert date of execution of apple	ication, if not concurrent)
(b) filed on <u>November 7, 2014</u> . Serial No. <u>14/535,440</u> ;	Assignee's attorney is hereb data, when known.	y authorized to insert in (b) the specified
and to said application and all Letters Patent(s) of the Unit substitute, reissue or reexamination application based there including any extensions thereof (collectively, hereinafter, The ASSIGNOR agree(s), when requested by said ASS which the ASSIGNEE may deem necessary, desirable or eincluding in the preparation and prosecution of said applic reexamination, or public use proceeding, and in any litigatic acts to include but not be limited to executing all papers, in sworn testimony, and obtaining and producing evidence. IN WITNESS WHEREOF, the undersigned inventor(s)	on, for the full term or terms for which the "said application(s) and Letters Patent(s). IGNEE and without charge to but at the expedient, for securing, maintaining and e ation(s) and the issuance of said Letters F on or other legal proceeding which may an including separate assignments and declar	e said Letters Patent(s) may be granted and "), expense of said ASSIGNEE, to do all acts inforcing protection for said invention, latent(s), in any interference, reissue, rise or be declared in relation to same, such ations, taking all rightful oaths, providing
1)	Hiroshi OHNO	
(Signature)	(Type Name)	(Date)
2) Jakashi Clair	Takashi USUI	Jamuary 16,2015
(Signature)	(Type Name)	
3) Mitsuaki Kato	Mitsuaki KATO	January 19, 2015
(Signature)	(Type Name)	(Date)
4) Junya Panaka (Signature) Yoshinori Mori	Junya TANAKA	January 16,2015
(Signature)	(Type Name)	(Date)
yoshinori mori	Yoshinori MORI	January 16.2015
(Signature)	(Type Name)	(Date)
6)	Kazuyo NARITA	
6)(Signature)	(Type Name)	(Date)

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S))

Kabushiki Kaisha Toshiba

RECORDED: 01/28/2015

1-1, Shibaura 1-chome, Minato-ku, To	kyo 105-8001 Japan	-	
(hereinafter, "ASSIGNEE"), the receipt of which is ASSIGNEE the entire and exclusive right, title and (Title of Invention)		VOR hereby sells, assigns and transfers to	
THREE-DIMENSIONAL MODELING	HEAD AND THREE-DIMENSIONAL	L MODELING DEVICE	
relating to International Patent Application PCT/JP even date herewith or, if not so executed, was:	and/or for which application for Letters Pate	nt of the United States was executed on	
(a) executed on	; (Insert date of execution of appli	cation, if not concurrent)	
(b) filed onNovember 7, 2014, Serial No 14/535,440,	Assignee's attorney is hereby data, when known.	Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.	
and to said application and all Letters Patent(s) of the substitute, reissue or reexamination application base including any extensions thereof (collectively, here	ed thereon, for the full term or terms for which the inafter, "said application(s) and Letters Patent(s)	said Letters Patent(s) may be granted an ").	
The ASSIGNOR agree(s), when requested by sa which the ASSIGNEE may deem necessary, desiral including in the preparation and prosecution of said reexamination, or public use proceeding, and in any acts to include but not be limited to executing all pasworn testimony, and obtaining and producing evid	ble or expedient, for securing, maintaining and et application(s) and the issuance of said Letters P litigation or other legal proceeding which may are opers, including separate assignments and declara- ence.	nforcing protection for said invention, atent(s), in any interference, reissue, ise or be declared in relation to same, suc tions, taking all rightful oaths, providing	
IN WITNESS WHEREOF, the undersigned inve	Hiroshi OHNO	(s).	
1)(Signature)	(Type Name)	(Date)	
, 5	Takashi USUI	, ,	
2)(Signature)	(Type Name)	(Date)	
	Mitsuaki KATO		
3)(Signature)	(Type Name)	(Date)	
	Junya TANAKA		
4)(Signature)	(Type Name)	(Date)	
	Yoshinori MORI		
5)(Signature)	(Type Name)	(Date)	
a Kazinjo Narita	Kazuyo NARITA	Januaryo /6 . 2015	
(Signature)	(Type Name)	(Date)	