505395184 03/26/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

c Version v1.1 EPAS ID: PAT5441978

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SUDHA KRISHNAMURTHY	12/12/2018
JUSTICE ADAMS	12/12/2018
ARINDAM JATI	12/14/2018
MASANORI OMOTE	12/12/2018
JIAN ZHENG	12/14/2018

RECEIVING PARTY DATA

Name:	SONY INTERACTIVE ENTERTAINMENT INC.
Street Address:	1-7-1 KONAN, MINATO-KU
City:	TOKYO
State/Country:	JAPAN

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16177214

CORRESPONDENCE DATA

Fax Number: (510)668-0239

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.

Phone: (510) 668-0965

Email: josh@jdipatent.com

Correspondent Name: JOSHUA D. ISENBERG

Address Line 1: 809 CORPORATE WAY

Address Line 4: FREMONT, CALIFORNIA 94539

ATTORNEY DOCKET NUMBER:	SCEA18052US00
NAME OF SUBMITTER:	JOSHUA D. ISENBERG
SIGNATURE:	/Joshua D. Isenberg, Reg. No. 41088/
DATE SIGNED:	03/26/2019

Total Attachments: 5

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PATENT 505395184 REEL: 048706 FRAME: 0784

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PATENT REEL: 048706 FRAME: 0785

Attorney Docket No: SCEA18052US00

ASSIGNMENT

THIS ASSIGNMENT, by SUDHA KRISHNAMURTHY, residing at FOSTER CITY, CALIFORNIA, JUSTICE ADAMS, residing at SAN MATEO, CALIFORNIA, ARINDAM JATI, residing at LOS ANGELES, CALIFORNIA, MASANORI OMOTE, residing at HALF MOON BAY, CALIFORNIA, and JIAN ZHENG, residing at BINGHAMPTON, NEW YORK, (hereinafter referred to as the Assignors), respectively witnesseth:

WHEREAS, said Assignors have invented certain new and useful improvements in

Arindam Jati	Date	Masanori Omote	Date
Sumia Al Ishnamurthy		овые Авину	<i>Date.</i>
/Sudha Krishnamurthy/ Sudha Krishnamurthy	- 12/12/2018 Date	Justice Adams	Date.
IN WITNESS WHEREOF said Assignors		ered this instrument on the date n	oted below
 Said Assignors hereby request the Directo United States to said Assignee as the assignee 	e of said inventions.		
4. The terms, covenants and conditions of this other legal representatives, and shall be bind	ing upon said Assignors,	their heirs, legal representatives a	nd assigns.
3. Said Assignors hereby covenant and agree extent said right, title and interest herein con Assignors in lending such assistance and coo papers (prepared at the expense of Assignee) interest herein conveyed, (b) prompt executive expense of Assignee) which are deemed nece country said application, any application whi application for any Letters Patent granted on Patent granted thereon; and (c) prompt assist said application, or Letters Patent granted the proceedings and court actions.	to assist and cooperate value of the provided, however, provided, however, peration be paid by Assign which are deemed necesson of all petitions, oaths, assary or desirable by Assign is a division, continual said application, or for a lance and cooperation in the proof, including oppositions.	with said Assignee, whereby said A or, that the entire expense which me gnee. Such cooperation shall include sary or desirable by Assignee to pe specifications, declarations and off signee for filing or prosecuting in the tion, or continuation-in-part of said my interference proceeding involving the prosecution of all legal proceed ons, cancellation proceedings, prior the prosecution of said legal proceed ons, cancellation proceedings.	ay be incurred by said de: (a) prompt execution of all erfect said right, title and her papers (prepared at the he United States or any foreign d application, any reissue ng said application or Letters ings involving said inventions, rity contests, public use
 Said Assignors hereby jointly and severall Assignors are the lawful owners of the entire and that the same have not entered into any a 	right, title and interest i	n and to said inventions and said a	
1. The Assignors have sold, assigned, transfe entire right, title and interest in, to and under granted for said inventions in the United Stat of said application; any reissue or extension of Industrial Property; said right, title and int of the term for which Letters Patent may be a Assignors, had this sale and assignment not the	r said inventions; said ap les of America and any fo of said Letters Patent; an erest to be held and enjo granted, as fully and entin	plication for Letters Patent; any Le breign country; any division, contin d all rights under the International yed by said Assignee for its own us	tters Patent which may be uation, or continuation-in-part Convention for the Protection se and behoove to the full end
NOW, THEREFORE, for good and valuab			=
(hereinafter referred to as the Assignee a 1-7-1 Konan, Minato-ku, Tokyo 108-0 said inventions and said application for lobtained therefor and thereon, and to an	975 JAPAN, is desiron Letters Patent, and in a	ns of obtaining the entire right, and to any Letters Patent, United	title and interest in and to d States or foreign, to be
·	Sony Interactive En		
WHEREAS.	and approximation	5 of suita applications when into	11.
No, filed, filed, filed, filed, filed, filed	and analication number	, International Patent Application s of said applications when know	1 No,
which are described United States application non-provisional and International application attorney, Joshua D. Isenberg, of 809 Corpo	on for letters patent Nu ons for letters patent hav rate Way, Fremont, Cali	mber 16/177,214 filed October 3. ring the above title. Said assignors formia, to insert here in parenthese	s hereby authorize and request es (U.S. Patent Application
"SCENE	ANNOTATION USIN	IG MACHINE LEARNING"	

Attorney Docket No: SCEA18052US00

ASSIGNMENT

THIS ASSIGNMENT, by SUDHA KRISHNAMURTHY, residing at FOSTER CITY, CALIFORNIA, JUSTICE ADAMS, residing at SAN MATEO, CALIFORNIA, ARINDAM JATI, residing at LOS ANGELES, CALIFORNIA, MASANORI OMOTE, residing at HALF MOON BAY, CALIFORNIA, and JIAN ZHENG, residing at BINGHAMPTON, NEW YORK, (hereinafter referred to as the Assignors), respectively witnesseth:

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Arindam Jati	Date	Masanori Omote	Date
Sudha Krishnamurthy	Date	Justice Adams	Date.
Cudha Kuizhnamuuthy	Proto	/Justice Adams/	
IN WITNESS WHEREOF said Assigne	ors have executed and		
Said Assignors hereby request the Dire United States to said Assignee as the assi			said Letters Patent of the
other legal representatives, and shall be b	oinding upon said Assig	mors, their heirs, legal representatives an	d assigns.
 Said Assignors hereby covenant and ag extent said right, title and interest herein Assignors in lending such assistance and papers (prepared at the expense of Assign interest herein conveyed, (b) prompt exec expense of Assignee) which are deemed a country said application, any application of application for any Letters Patent granted Patent granted thereon; and (c) prompt as said application, or Letters Patent granted proceedings and court actions. The terms, covenants and conditions of 	conveyed, provided, he cooperation be paid by nee) which are deemed oution of all petitions, of necessary or desirable to which is a division, con on said application, or sistance and cooperation thereon, including op	owever, that the entire expense which may Assignee. Such cooperation shall include necessary or desirable by Assignee to perpaths, specifications, declarations and other by Assignee for filing or prosecuting in the atinuation, or continuation-in-part of said of for any interference proceeding involving on in the prosecution of all legal proceeding positions, cancellation proceedings, priori	y be incurred by said e: (a) prompt execution of all fect said right, title and er papers (prepared at the e United States or any foreign application, any reissue g said application or Letters ings involving said inventions, ty contests, public use
 Said Assignors hereby jointly and seve Assignors are the lawful owners of the en and that the same have not entered into a 	tire right, title and inte ny assignment, contrac	erest in and to said inventions and said app t or understanding in conflict herewith.	plication for Letters Patent,
 The Assignors have sold, assigned, trangentire right, title and interest in, to and use granted for said inventions in the United of said application; any reissue or extension Industrial Property; said right, title and of the term for which Letters Patent may assignors, had this sale and assignment in 	nder said inventions; sa States of America and on of said Letters Pates I interest to be held and be granted, as fully and	nid application for Letters Patent; any Lett any foreign country; any division, continu nt; and all rights under the International C I enjoyed by said Assignee for its own use	ters Patent which may be ation, or continuation-in-part convention for the Protection and behoove to the full end
NOW, THEREFORE, for good and value			
(hereinafter referred to as the Assigne 1-7-1 Konan, Minato-ku, Tokyo 103 said inventions and said application f obtained therefor and thereon, and to	8-0075 JAPAN, is do or Letters Patent, and	esirous of obtaining the entire right, ti d in and to any Letters Patent, United	itle and interest in and to States or foreign, to be
·	-	ve Entertainment Inc.	
WHEREAS.	ues and application in	intoers of said applications when known	i.
No, filed, filed	to and analization as	, International Patent Application imbers of said applications when known	No
which are described United States appli non-provisional and International applic attorney, Joshua D. Isenberg, of 809 Co	cations for letters pater rporate Way, Fremont	nt having the above title. Said assignors , California, to insert here in parentheses	hereby authorize and request s (U.S. Patent Application
"SCE	NE ANNOTATION	USING MACHINE LEARNING"	

Page 1 of I

Attorney Docket No: SCEA18052US00

ASSIGNMENT

THIS ASSIGNMENT, by SUDHA KRISHNAMURTHY, residing at FOSTER CITY, CALIFORNIA, JUSTICE ADAMS, residing at SAN MATEO, CALIFORNIA, ARINDAM JATI, residing at LOS ANGELES, CALIFORNIA, MASANORI OMOTE, residing at HALF MOON BAY, CALIFORNIA, and JIAN ZHENG, residing at BINGHAMPTON, NEW YORK, (hereinafter referred to as the Assignors), respectively witnesseth:

WHEREAS, said Assignors have invented certain new and useful improvements in

"SCENE ANNOTATION USING MACHINE LEARNING"

which are described United States application non-provisional and International application attorney, Joshua D. Isenberg, of 809 Corporat No. , filed	s for letters patent hav e Way, Fremont, Cali	ing the above title. Said assignors her	eby authorize and request J.S. Patent Application
	,	s of said applications when known.	``
WHEREAS,	••		
·	Sony Interactive En	tertainment Inc.	
(hereinafter referred to as the Assignee a b 1-7-1 Konan, Minato-ku, Tokyo 108-007 said inventions and said application for Le obtained therefor and thereon, and to any a	5 JAPAN, is desiroutters Patent, and in a	s of obtaining the entire right, title nd to any Letters Patent, United St	and interest in and to ates or foreign, to be
NOW, THEREFORE, for good and valuable	consideration, the rece	ript of which is hereby acknowledged	;
 The Assignors have sold, assigned, transferrentire right, title and interest in, to and under signanted for said inventions in the United States of said application; any reissue or extension of of Industrial Property; said right, title and interest the term for which Letters Patent may be grant Assignors, had this sale and assignment not be 	aid inventions; said app of America and any fo said Letters Patent; and est to be held and enjoy nted, as fully and entin	plication for Letters Patent; any Letters reign country, any division, continuation I all rights under the International Con yed by said Assignee for its own use an	Patent which may be on, or continuation-in-part vention for the Protection ad behoove to the full end
 Said Assignors hereby jointly and severally to Assignors are the lawful owners of the entire ri and that the same have not entered into any ass 	ght, title and interest in	and to said inventions and said applic	
3. Said Assignors hereby covenant and agree to extent said right, title and interest herein conver- Assignors in lending such assistance and coope papers (prepared at the expense of Assignee) winterest herein conveyed, (b) prompt execution expense of Assignee) which are deemed necess country said application, any application which application for any Letters Patent granted on sa Patent granted thereon; and (c) prompt assistant said application, or Letters Patent granted there proceedings and court actions.	ryed, provided, however ration be paid by Assig thich are deemed neces of all petitions, oaths, s ary or desirable by Ass is a division, continual id application, or for a ce and cooperation in the on, including opposition	r, that the entire expense which may be nee. Such cooperation shall include: (sary or desirable by Assignee to perfect specifications, declarations and other particles of filing or prosecuting in the Union, or continuation-in-part of said appropriate proceeding involving safe prosecution of all legal proceedings ons, cancellation proceedings, priority of	e incurred by said a) prompt execution of all it said right, title and sapers (prepared at the inited States or any foreign obication, any reissue iid application or Letters involving said inventions, contests, public use
4. The terms, covenants and conditions of this a other legal representatives, and shall be binding	_		
5. Said Assignors hereby request the Director of United States to said Assignee as the assignee		tent and Trademark Office to issue said	d Letters Patent of the
IN WITNESS WHEREOF said Assignors ha	ve executed and delive	ered this instrument on the date noted	below
Sudha Krishnamurthy	Date	Justice Adams	Date.
/Arindam Jati/	12/14/2018		
Arindam Jati	Date	Masanori Omote	Date

Attorney Docket No: SCEA18052US00

ASSIGNMENT

THIS ASSIGNMENT, by SUDHA KRISHNAMURTHY, residing at FOSTER CITY, CALIFORNIA, JUSTICE ADAMS, residing at SAN MATEO, CALIFORNIA, ARINDAM JATI, residing at LOS ANGELES, CALIFORNIA, MASANORI OMOTE, residing at HALF MOON BAY, CALIFORNIA, and JIAN ZHENG, residing at BINGHAMPTON, NEW YORK, (hereinafter referred to as the Assignors), respectively witnesseth:

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Arindam Jati	Date	Masanori Omote	Date
		/Masanori Omote/	
Sudha Krishnamurthy		Justice Adams	Date.
IN WITNESS WHEREOF said Assignor	rs have executed and	delivered this instrument on the date no	ted below
 Said Assignors hereby request the Direc United States to said Assignee as the assig 			said Letters Patent of the
other legal representatives, and shall be bi			-
4. The terms, covenants and conditions of			
Assignors, had this sale and assignment not 2. Said Assignors hereby jointly and seven Assignors are the lawful owners of the ent and that the same have not entered into an	of been made. ally warrant and reprint right, title and into y assignment, contracted to assist and coopton veyed, provided, it coperation be paid by the which are deemed tition of all petitions, ecessary or desirable which is a division, come said application, coistance and cooperation of coperation of coperation of coperation of coperation.	resent that, at the time of execution and deleterest in and to said inventions and said appet or understanding in conflict herewith. Berate with said Assignee, whereby said Assowever, that the entire expense which may a Assignee. Such cooperation shall included necessary or desirable by Assignee to peroaths, specifications, declarations and other by Assignee for filing or prosecuting in the outinuation, or continuation-in-part of said or for any interference proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution of all legal proceeding involving ion in the prosecution in the prosecution in the prosecution of all legal proceeding involving ion in the prosecution in	tivery of these presents, said plication for Letters Patent, signee may enjoy to the fullest y be incurred by said e: (a) prompt execution of all fect said right, title and er papers (prepared at the e United States or any foreign application, any reissue g said application or Letters ngs involving said inventions,
1. The Assignors have sold, assigned, tran- entire right, title and interest in, to and un- granted for said inventions in the United S of said application; any reissue or extension of Industrial Property; said right, title and of the term for which Letters Patent may be	der said inventions; s states of America and an of said Letters Pate interest to be held an e granted, as fully an	said application for Letters Patent; any Lett lany foreign country; any division, continuent; and all rights under the International Cad enjoyed by said Assignee for its own used	ters Patent which may be ation, or continuation-in-part Convention for the Protection e and behoove to the full end
NOW, THEREFORE, for good and value	able consideration, t	he receipt of which is hereby acknowledg	ged:
(hereinafter referred to as the Assigne 1-7-1 Konan, Minato-ku, Tokyo 108 said inventions and said application for obtained therefor and thereon, and to a	-0075 JAPAN, is d or Letters Patent, ar	desirous of obtaining the entire right, to and in and to any Letters Patent, United	itle and interest in and to States or foreign, to be
·		ive Entertainment Inc.	
WHEREAS.	ac are appreciator i	will in the state of the state	•
filed . 2017) the filing dat	es and application n	, meritational Patent Application numbers of said applications when known	1.
which are described United States application non-provisional and International applicationney, Joshua D. Isenberg, of 809 Corp. No. , filed	ations for letters pate porate Way, Fremon	ent having the above title. Said assignors	hereby authorize and request s (U.S. Patent Application
		USING MACHINE LEARNING"	

RECORDED: 03/26/2019

Attorney Docket No: SCEA18052US00

ASSIGNMENT

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"SCENE ANNOTATION USING MACHINE LEARNING"

application for Patent granted said application proceedings at 4. The terms, other legal rep 5. Said Assign United States	nd court actions. covenants and conditions of this presentatives, and shall be bindingers hereby request the Director to said Assignee as the assignee	Assignment shall inure ng upon said Assignors, of The United States Po of said inventions.	e to the benefit of said Assignee, its, their heirs, legal representatives ar atent and Trademark Office to issue	ity contests, public use successors, assigns and/or ad assigns. said Letters Patent of the
application for Patent granted said application proceedings at 4. The terms, other legal rep 5. Said Assign	nd court actions. covenants and conditions of this bresentatives, and shall be bindi- cors hereby request the Director	Assignment shall inure ng upon said Assignors, of The United States Pa	e to the benefit of said Assignee, its , their heirs, legal representatives ar	ity contests, public use successors, assigns and/or id assigns.
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application for Patent granted said application	nd court actions.		ous, cancenation proceedings, prior	
	r any Letters Patent granted on s I thereon; and (c) prompt assista	aid application, or for a nce and cooperation in	ation, or continuation-in-part of said any interference proceeding involvin the prosecution of all legal proceeding	g said application or Letters
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Assignors are and that the sa	the lawful owners of the entire a une have not entered into any as	right, title and interest i signment, contract or u	that, at the time of execution and de in and to said inventions and said ap inderstanding in conflict herewith. with said Assignee, whereby said As	pplication for Letters Patent,
entire right, ti granted for sai of said applica of Industrial P of the term for	tle and interest in, to and under id inventions in the United State ation; any reissue or extension or roperty; said right, title and inte	said inventions; said ap is of America and any for f said Letters Patent; an rest to be held and enjonanted, as fully and enti-	o hereby sell, assign, transfer and se oplication for Letters Patent; any Let oreign country; any division, continu and all rights under the International of oyed by said Assignee for its own us rely as the same would have been he	ters Patent which may be nation, or continuation-in-part Convention for the Protection e and behoove to the full end
	=		eipt of which is hereby acknowled	=
1-7-1 Konan said inventio	i, <mark>Minato-ku, Tokyo 108-00</mark> ns and said application for L	75 JAPAN, is desiro etters Patent, and in a	te powers under the laws of JAP, us of obtaining the entire right, to and to any Letters Patent, United ts which are disclosed in said ap	ritle and interest in and to I States or foreign, to be
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WHEREAS,				
filed	, then, 2017) the filing dates a	,	_, International Patent Application rs of said applications when known	n.
	ua D. Isenberg, of 809 Corpora	ate Way, Fremont, Cal	ifornia, to insert here in parenthese	s (U.S. Patent Application
			mber 16/177,214 filed October 31 ving the above title. Said assignors	
No.	al and International application ua D. Isenberg, of 809 Corpora	ns for letters patent hav ate Way, Fremont, Cal	ving the above title. Said assignors ifornia, to insert here in parenthese	hereby authorize and rest (U.S. Patent Applicat

Page 1 of I