### 503101217 12/15/2014 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DA	TA				
		Name	Execution Date		
YUTAKA TAKEDA			10/29/2008		
STEPHEN C. DETWILEF	{		10/29/2008		
PAYTON R. WHITE			10/28/2008		
JAMES E. MARR	10/16/2008				
ATTILA VASS			10/29/2008		
RECEIVING PARTY DAT	ГА				
Name:	SONY COMPUTER ENTERTAINMENT INC.				
Street Address:	1-7-1 KONAN				
Internal Address:	MINATO-KU				
City:	ТОКҮО				
State/Country:	JAPAN				
Postal Code:	108-0075				
PROPERTY NUMBERS	Total: 1				
Property Type		Number	7		
Application Number: 1346		13460617			
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NAME OF SUBMITTER:		JOSHUA D. ISENBERG	JOSHUA D. ISENBERG		
SIGNATURE:		/Joshua D. Isenberg, Reg. No. 4	/Joshua D. Isenberg, Reg. No. 41088/		
DATE SIGNED:		12/15/2014			
Total Attachments: 2					
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PATENT REEL: 034509 FRAME: 0085

### ASSIGNMENT

THIS ASSIGNMENT, by YUTAKA TAKEDA, JAMES E. MARR, STEPHEN C. DETWILER, ATTILA VASS and PAYTON R. WHITE

and (hereinafter referred to as the Assignors), residing at, SAN MATEO, CALIFORNIA, BURLINGAME, CALIFORNIA, OAKLAND, CALIFORNIA, FOSTER CITY, CALIFORNIA and FOSTER CITY, CALIFORNIA witnesseth:

WHEREAS, said Assignors have invented certain new and useful improvements in "NETWORK BANDWIDTH DETECTION AND DISTRIBUTION"

which are described in United State Provisional Patent Application number 60/992,282, filed December 4, 2007

and for which are inventions described in an application for letters patent having the above title and Attorney Docket Number.

Said Assignors hereby authorize and request his attorney, Joshua D. Isenberg, of 809 Corporate Way, Fremont, California, to insert here in parentheses (Application number 12/267.254 ). Filed Nov. 7.2002 ) the filing date and application number of said application when known.

WHEREAS,

### SONY COMPUTER ENTERTAINMENT INC.

(hereinafter referred to as the Assignce), a body having corporate powers under the laws of JAPAN, 2-6-21 Minami-Aoyama, Minato-ku, TOKYO 107-0062, JAPAN, is desirous of obtaining the entire right, title and interest in and to said inventions ard said application for Letters Patent, and in and to any Letters Patent, United States or foreign, to be obtained therefor and thereon, ard to any and all improvements which are disclosed in said application for Letters Patent

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged:

1. The Assignors have sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over unto said Assignee, the entire right, title and interest in, to and under said inventions; said application for Letters Patent; any Letters Patent which may be granted for said inventions in the United States of America and any foreign country; any division, continuation, and continuation-inpart of said application; any reissue or extension of said Letters Patent; and all rights under the International Convention for the Protection of Industrial Property; said right, title and interest to be held and enjoyed by said Assignee for its own use and behoove to the full end of the term for which Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors, had this sale and assignment not been made.

2. Said Assignors hereby warrant and represent that, at the time of execution and delivery of these presents, said Assignors are the lawful owner of the entire right, title and interest in and to said inventions and said application for Letters Patent, and that the same has not entered into any assignment, contract or understanding in conflict herewith.

3. Said Assignors hereby covenant and agree to assist and cooperate with said Assignee, whereby said Assignee may enjoy to the fullest extent said right, title and interest herein conveyed, provided, however, that the entire expense which may be incurred by said Assignors in lending such assistance and cooperation be paid by Assignee. Such cooperation shall include: (a) prompt execution of all papers (prepared at the expense of Assignee) which are deemed necessary or desirable by Assignee to perfect said right, title and interest herein conveyed, (b) prompt execution of all petitions, oaths, specifications, declarations and other papers (prepared at the expense of Assignee) which are deemed necessary or desirable by Assignee for filing or prosecuting in the United States or any foreign country said application, any application which is a division, continuation, or continuation-in-part of said application, any reissue application for any Letters Patent granted on said application, or for any interference proceeding involving said application or Letters Patent granted thereon; and (c) prompt assistance and cooperation in the prosecution of all legal proceedings involving said inventions, said application, or Letters Patent granted thereon, including oppositions, cancellation proceedings, priority contests, public use proceedings and court actions.

4. The terms, covenants and conditions of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and/or other legal representatives, and shall be binding upon said Assignors, their heirs, legal representatives and assigns.

5. Said Assignors hereby request the Director of the United States Patent and Trademark Office to issue said Letters Patent of the United States to said Assignee as the assignee of said inventions.

IN WITNESS WHEREOF said Assignors have executed and delivered this instrument on the date noted below.

A TAKEDA N7)TAB N C. DETWILER

MARR

10/29/Ler

FAYTON R. WHITE

Date

PATENT REEL: 034509 FRAME: 0086

### ASSIGNMENT

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which are described in United State Provisional Patent Application number 60/992,282, filed December 4, 2007

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Said Assignors hereby authorize and request his attorney, Joshua D. Isenberg, of 809 Corporate Way, Fremont, California, to insert here in parentheses (Application number <u>12/267,254</u>), filed <u>Nov. 7, 200 9</u>), the filing date and application number of said application when known.

#### WHEREAS,

### SONY COMPUTER ENTERTAINMENT INC.

(hereinafter referred to as the Assignee), a body having corporate powers under the laws of JAPAN, 2-6-21 Minami-Aoyama, Minato-ku, TOKYO 107-0062, JAPAN, is desirous of obtaining the entire right, title and interest in and to said inventions and said application for Letters Patent, and in and to any Letters Patent, United States or foreign, to be obtained therefor and thereon, and to any and all improvements which are disclosed in said application for Letters Patent

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged:

1. The Assignors have sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over unto said Assignee, the entire right, title and interest in, to and under said inventions; said application for Letters Patent; any Letters Patent which may be granted for said inventions in the United States of America and any foreign country; any division, continuation, and continuation-in-part of said application; any reissue or extension of said Letters Patent; and all rights under the International Convention for the Protection of Industrial Property; said right, title and interest to be held and enjoyed by said Assignee for its own use and behoove to the full end of the term for which Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors, had this sale and assignment not been made.

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IN WITNESS WHEREOF said Assignors have executed and delivered this instrument on the date noted below.

YUTAKA TAKEDA	Date	JAMES E. MARR	Date
STEPHEN C. DETWILER MN PAYTON R. WHITE	Date 11/72/9409 Date	ATTILA VASS	Date

**RECORDED: 12/15/2014**