FORM PTO-1595 REC (Rev. 06/93)		02-08-2002	T U.S. Department of Commerce Patent and Trademark Office				
OMB No. 0651-0011 (Exp. 04/94)			Attorney Docket No.: SONY-11000				
Assistant Commissioner for Patents Washington, D.C. 20231		101978315					
Sir:							
Please re	cord the attached original documents or copy thereo	f					
1.	Name of conveying party(ies):  Hisato Shima Sho Kou Chenchu Chilamakuri Oi Hu	SON' 6-7-3 Shing	2. Name and address of receiving party(ies):  SONY CORPORATION 6-7-35 Kitashinagawa Shingawa, Tokoyo 141 Japan  SONY ELECTRONICS, INC. 1 Sony Drive Park Ridge, NJ 07656-8003				
***	Ratna Vemuri  Additional name(s) of conveying party(ies) at	SON 1 Son					
3.	Nature of conveyance:  X Assignment _ Merger Security Agreement _ Change of Other:	_	ional name(s) and address(es) attached.				
by Sho K 11/8/01 a	Execution Date: Executed by Hisato Shima on 11 ou and Qi Hu on 10/11/01; executed by Chenchu C nd executed by Ratna Vemuri on 10/26/01.						
4.	Application number(s) or patent number(s):		N 2 4 2002				
	This document is being filed together with a  X Patent Application Serial No.(s): 09/177,66: Patent No.(s): Additional numbers attached.	new application, the execution date of the a filed on 10/22/98.					
5.	Name and address of party to whom corresponden document should be mailed:	ce concerning 6. Total numb	er of applications and patents involved: _1.				
	Jonathan O. Owens HAVERSTOCK & OWENS LLP 260 Sheridan Avenue, Suite 420 Palo Alto, California 94306	7. Total fee(s)	7. Total fee(s) [37 CFR §§ 1.21(h) and 3.41]:				
		X Check	s(s) in the amount of \$40.00 enclosed.				
		8. Authorizati	on to Charge Additional Fees:				
		additi	commissioner is hereby authorized to charge any onal fees or credit any overpayment associated with this nunication and which may be required under 37 CFR (1(h) and 3.41 to Deposit Account No. <u>08-1275</u> .				
9.	To the best of my knowledge and belief, the foreg	oing information is true and correct and any	attached copy is a true copy of the original document.				
	Reg. 1	ture: Downs  Society of the second of the se					
Total number of pages mending 55.55 short and a							

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PATENT REEL: 12548 FRAME: 0827

Attorney Docket No.: SONY-11000

## ASSIGNMENT

WHEREAS, WE, <u>Hisato Shima</u>, <u>Sho Kou</u>, <u>Chenchu Chilamakuri</u>, <u>Qi Hu and Ratna Vemuri</u>, hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

METHOD OF AND APPARATUS FOR DYNAMICALLY ENUMERATING OBJECTS REPRESENTING DEVICES WITHIN AN IEEE 1394 SERIAL BUS NETWORK Title of Invention:

Date of execution of application: Filing Date: October 22, 1998 Serial No.:09/177,665

WHEREAS, SONY CORPORATION, a Japanese corporation, 6-7-35 Kitashinagawa, Shinagawa, Tokyo, 141, Japan, and SONY ELECTRONICS INC., a corporation of the State of Delaware, 1 Sony Drive, Park Ridge, NJ 07656-8003, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee, and Assignee's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any Letters Patent.

Assignors further agree that they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have he	reunto signed their names to this assignment on the dates indicated below.
piralo Merme	Nov. 9, 200/
Hisato Shima	Date
- 1 1 1 m	10 11-01
Sho Kou	
	Date
Chenchu Chilamakuri	
Con M	10/11/01
Qi Hu	Date
	Date
Ratna Vemuri	
-(1000)	
STATE OF CONTRACTOR	
COUNTY OF before me.	h. majuta Cordaia
on before me. personally appeared Hisato Shina, Sho Kou, Chenchu Chila	makeri. Oi Hu and Ratna Vemuri sis of satisfactory evidence to be the person(s) whose names are subscribed to the within instrument and acknowledged to me that he/she/they executed the
personally known to me - OR - broved to me of the	the within instrument and acknowledged to me that he his/her/their
JUANITA CORDOVA Commission # 1297250	
Notary Public - California	which the person(s) acted, executed the instruments
Sonta Clara County	WITNESS my hand and official seal.
My Comm. Expires Mar 16, 2005 P	$\theta$
	Colorata ( 1080) Aci Di
SEAL	Signature of Notary Public

SEAL

PATENT REEL: 12548 FRAME: 0828

Attorney Docket No.: <u>SONY-11000</u>

## ASSIGNMENT

WHEREAS, WE, <u>Hisato Shima, Sho Kou, Chenchu Chilamakuri, Qi Hu and Ratna Vemuri</u>, hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: METHOD OF AND APPA DEVICES WITHIN AN IE		ICALLY ENUMERATING OBJE NETWORK	CTS REPRESENTING
Date of execution of application:	Filing I	Date: October 22, 1998 Serial No.:0	<u> 19/1</u> 77,665
WHEREAS, SONY CORPORATION, ELECTRONICS INC., a corporation of the State of "ASSIGNEE", is desirous of acquiring the entire ribe granted on the same;	of Delaware, 1 Sony Drive	e. Park Ridge, NJ 07656-8003, here	inafter referred to as
NOW THEREFORE, TO ALL WHOM which is hereby acknowledged, Assignors have so Assignee, and Assignee's successors and assigns, a Patent, and any Letters Patent which may hereafter any divisions, renewals, continuations in whole or to be held and enjoyed by said Assignee as fully arand transfer not been made, to the full end and term	Id, assigned and transferrall right, title and interest regarded on the same in part, substitutions, condexclusively as it would	ed, and by these presents do sell, ass in and to said invention, said applica- in the United States and all countries inversions, reissues, prolongations or	sign and transfer unto said ation for United States Letters as throughout the world including extensions thereof, said interest
Assignors further agree that they will, w prosecution of said application and/or applications Letters Patent and for the reissue thereof, and instrawfully may request, to obtain or maintain Letters in said Assignee, or Assignee's successors and assignee	, execute, verify, acknow urnents of assignment and Patent for said invention	ledge and deliver all such further pa I transfer thereof, and will perform s	pers, including applications for such other acts as Assignee
IN TESTIMONY WHEREOF, Assignor	rs have hereunto signed t	heir names to this assignment on the	dates indicated below.
Hisato Shima	Committee of the Commit		Date
Tisato Stima			Dut
Sho Kou			Date
Chenchu Chilamakuri	<u>L</u> eni	Nov 81-12	Date
Qi Hu			Date
Ratna Vemuri			Date
STATE OF			
COUNTY OF			
	the withing same in signature which the	and Ratna Vemuri by evidence to be the person(s) who in instrument and acknowledged to ribis/her/their authorized capacity(ies) e(s) on the instrument the person(s), it person(s) acted, executed the instruction experson(s) and official seal.	or the entity upon behalf of
	WIINE	55 my naid and official com-	

SEAL

Signature of Notary Public

Attorney Docket No.: <u>PATENT</u> SONY-11000

## ASSIGNMENT

WHEREAS, WE. <u>Hisato Shima, Sho Kou, Chenchu Chilamakuri, Qi Hu and Ratna Vemuri</u>, hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

METHOD OF AND APPARATUS FOR DYNAMICALLY ENUMERATING OBJECTS REPRESENTING DEVICES WITHIN AN IEEE 1394 SERIAL BUS NETWORK Title of Invention: Date of execution of application: Filing Date: October 22, 1998 Serial No.:09/177,665 WHEREAS, SONY CORPORATION, a Japanese corporation, 6-7-35 Kitashinagawa, Shinagawa, Tokyo, 141, Japan, and SONY ELECTRONICS INC., a corporation of the State of Delaware, 1 Sony Drive, Park Ridge, NJ 07656-8003, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same; NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said the sell of Assignce, and Assignce's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any Letters Patent. Assignors further agree that they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns. IN TESTIMONY WHEREOF, Assignors have hereunto signed their names to this assignment on the dates indicated below. Date Hisato Shima Sho Kou Date Chenchu Chilamakuri Date Oi Hu 10/26/01 lawnsee R. Walker On Oct. 26,2001 before me, personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose names are subscribed to nd Ratna Vemuri the within instrument and acknowledged to me that it she/they executed the same in hs/her/then authorized capacity(is), and that by hs/her/then signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. personally appeared SAWNSEE R. WALKER Comm. # 1193278 WITNESS my hand and official seal. NOTARY PUBLIC - CALIFORNIA Santa Clara County Signature of Notary Public Signature of Notary Public My Comm. Expires Aug. 13, 2002

> PATENT REEL: 12548 FRAME: 0830

**RECORDED: 01/24/2002**