## 502095655 10/16/2012

# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Lothar STADELMEIER	08/10/2012
Joerg ROBERT	08/07/2012
Samuel Asangbeng ATUNGSIRI	08/13/2012
Nabil LOGHIN	08/10/2012

## **RECEIVING PARTY DATA**

Name:	SONY CORPORATION
Street Address:	1-7-1 Konan, Minato-ku
City:	Tokyo
State/Country:	Japan
Postal Code:	108-0075

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	13578461

## **CORRESPONDENCE DATA**

**Fax Number**: 7034132220

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (703) 413-3000

Email: asomaiel@oblon.com

Correspondent Name: Oblon, Spivak, et al.

Address Line 1: 1940 Duke Street

Address Line 4: Alexandria, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	402962US8XPCT
NAME OF SUBMITTER:	Adel Samuel

Total Attachments: 6

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PATENT REEL: 029134 FRAME: 0903 340,00 13578461

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### Docket Number:

#### ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in

MAPPING APPARATUS AND METHOD FOR TRANSMISSION OF DATA IN A MULTI-CARRIER

**BROADCAST SYSTEM** 

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, Sony Corporation, a Japanese corporation with offices at 1-7-1 Konan, Minato-Ku, Tokyo, 108-0075 Japan (hereinafter referenced as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: Serial Number: 13/578,461 Filing Date: September 4, 2012

This assignment executed on the dates indicated below.

Lothar STADELMEIER		
Name of first or sole inventor	Executi	on date of U.S. Patent Application
Stuttgart, Germany		
Residence of first or sole inventor		
x St.C	X	16.8.12
Signature of first or sole inventor		Date of this assignment

Jorg ROBERT	
Name of second inventor	Execution date of U.S. Patent Application
Vreden, Germany	
Residence of second inventor	
	•
4 <u> </u>	
Signature of second inventor	Date of this assignment
Samuel Asangbeng ATUNGSIRI	
Name of third inventor	Execution date of U.S. Patent Application
Hammakin, Gurd P. W.	
Hampshire, Great Britain	
Residence of third inventor	
Signature of third inventor	Date of this assignment
Nabil LOGHIN	
Name of fourth inventor	Execution date of U.S. Patent Application
Stuttgart, Germany	'
Residence of fourth inventor	
the (gr	10.8.12
Signature of fourth inventor	Date of this assignment

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Stuttgart, Germany				٠
Residence of first or sole inventor				
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Jörg ROBERT			er e
Name of second inventor		Execution date	of U.S. Patent Application
Vreden, Germany		·	
Residence of second inventor			
Manual M		P/	7/2012
Signature of second inventor		7	Date of this assignment
Λ. Λ			
Samuel Asangbeng ATUNGSIRI			•
Name of third inventor		Execution date	of U.S. Patent Application
	•		
Hampshire, Great Britain	·		
Residence of third inventor			
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Signature of third inventor			Date of this assignment
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,			
Nabil LOGHIN			
Name of fourth inventor		Execution date	of U.S. Patent Application
7		÷	
Stuttgart, Germany			
Residence of fourth inventor	•		
	enter and a second of the seco		
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Name of first or sole inventor		Execution d	ate of U.S. Pa	tent Application
Stuttgart, Germany				
Residence of first or sole inventor			<del></del>	<del>· · · · · · · · · · · · · · · · · · · </del>
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		•		* •
Signature of first or sole inventor	 		Date of	f this assignment

JUIS KUDEN I			
Name of second inventor	Execution date of U.S. Patent Application		
Vreden, Germany			
Residence of second inventor			
Signature of second inventor	Date of this assignment		
Samuel Asangbeng ATUNGSIRI			
Name of third inventor	Execution date of U.S. Patent Application		
Hampshire, Great Britain			
Residence of third inventor			
Mi ( H.T	13 08 2012 Date of this assignment		
Signature of third inventor	Date of this assignment		
Nabil LOGHIN			
Name of fourth inventor	Execution date of U.S. Patent Application		
Stuttgart, Germany			
Residence of fourth inventor			
Signature of fourth inventor			
Connecture of fourth inventor	Date of this againsment		

PATENT REEL: 029134 FRAME: 0910

**RECORDED: 10/16/2012**