

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5436362

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
AKIHIRO MOROHASHI	12/11/2000
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DATA SCAPE LTD.
<b>Street Address:</b>	GALWAY TECHNOLOGY CENTRE
<b>Internal Address:</b>	MERVUE BUSINESS PARK
<b>City:</b>	GALWAY
<b>State/Country:</b>	IRELAND
<b>Postal Code:</b>	H91 D932
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16361921
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)519-9802
<i>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.</i>	
<b>Phone:</b>	703-519-9801
<b>Email:</b>	mail@krameramado.com
<b>Correspondent Name:</b>	KRAMER & AMADO, P.C.
<b>Address Line 1:</b>	330 JOHN CARLYLE STREET
<b>Address Line 2:</b>	3RD FLOOR
<b>Address Line 4:</b>	ALEXANDRIA, VIRGINIA 22314
<b>ATTORNEY DOCKET NUMBER:</b>	DAT 3001-CON3
<b>NAME OF SUBMITTER:</b>	RONITA FLEMING
<b>SIGNATURE:</b>	/Ronita Fleming/
<b>DATE SIGNED:</b>	03/22/2019
<b>Total Attachments: 6</b>	
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## 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 COMMUNICATION SYSTEM AND ITS METHOD AND COMMUNICATION APPARATUS AND ITS METHOD 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 6-7-35 Kitashinagawa, Shinagawa-Ku, Tokyo, Japan (hereinafter reference 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 thereof;

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 thereof;

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 09/665,286, Filing Date September 20, 2000

PATENT

REEL: 011394 FRAME: 0997

PATENT

REEL: 048679 FRAME: 0075

This assignment executed on the dates indicated below.

<u>Akihiro Morohashi</u> Name of first or sole inventor	<u>Execution date of U.S. Patent Application</u>
<u>Tokyo, Japan</u> Residence of first or sole inventor	
<u>Akihiro Morohashi</u> Signature of first or sole inventor	<u>December 11, 2000</u> Date of this assignment

CONFIDENTIAL

**Exhibit C**  
**ASSIGNMENT OF PATENT RIGHTS FOR ASSIGNED PATENTS**

**ASSIGNMENT**

WHEREAS, SONY CORPORATION, having a place of business at 1-7-1 Konan, Tokyo 108-0075 Japan, is hereinafter called "Assignor," and is the owner of the entire right, title, and interest and assignor of the patents and patent applications listed in the attached Annex A;

AND WHEREAS, Data Scape Ltd., an Irish corporation, having a place of business at Galway Technology Centre, Mervue Business Park, Galway, H91 D932, Ireland, and who, together with its successors, assigns and legal representatives, is hereinafter called "Assignee," is desirous of acquiring the entire right, title and interest in and to the patents and patent applications listed in the attached Annex A;

NOW, THEREFORE, in consideration of the good and valuable consideration furnished by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby assigns, conveys and transfers to Assignee, its successors and assigns, its entire right, title and interest in and to the patents and patent applications listed in the attached Annex A, and the inventions therein contained and described, including the right to apply for any letters patent in any and all countries on the inventions, and any letters patent that may be or have been issued thereon or therefor, in the United States and elsewhere, and all reissues, extensions, renewals, divisions and continuations thereof, to the full end of the term or terms for which the letters patent may be issued or have been issued, and including all rights to claim priority on the basis thereof, all rights to sue for past, present and future infringement, including the right to collect and receive any damages, royalties, or settlements for such infringements, all rights to sue for injunctive or other equitable relief, and any and all causes of actions relating to any of the inventions or discoveries thereof, the same to be held and enjoyed by Assignee, its successors and assigns, the same as it would have been held and enjoyed by Assignor if this Assignment had not been made.

And Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks and similar authorities to issue all such letters patent to Assignee, its successors and assigns, in accordance with this instrument of Assignment.

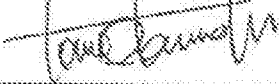
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REEL: 042400 FRAME: 0844

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IN TESTIMONY WHEREOF, Assignor has hereunto set its hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2017.

SONY CORPORATION



\_\_\_\_\_

Tomonori Okuwaki  
Name

Deputy Senior General Manager  
Title

WITNESSED BY:

\_\_\_\_\_

\_\_\_\_\_  
Name

\_\_\_\_\_  
Address

PATENT  
REEL: 042400 FRAME: 0845

PATENT  
REEL: 048679 FRAME: 0078

CONFIDENTIAL

ASSIGNMENT OF PATENT RIGHTS FOR ASSIGNED PATENTS

ANNEX A

Country	Patent Application
US	7145741
US	7361363
US	7239469
US	7905362
US	8315004
US	8681447
US	9330707
US	15/080681 (Pending)
CN	ZL03801043.7
KR	10-0953735

Country	Patent Application
JP	4196998
JP	4211795
JP	4337914
US	7130251
US	7720929
US	7617537
US	8122163
US	8386581
US	8108572
US	8601243
US	8554888
US	8291134
US	9169818
US	14/229153 (Pending)
US	9380112
US	14/747844 (Pending)
CN	ZL00131746.7
EP	1087398
EP	1624389
EP	1624390
EP	1624388
EP	1624387
EP	2249260
EP	2735152
EP	2752851
EP	15192803.3 (Pending)
DE	1087398
DE	1624389

PATENT  
REEL: 042400 FRAME: 0846

PATENT  
REEL: 048679 FRAME: 0079

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DE	1624390
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FR	1087398
FR	1624389
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FR	1624387
FR	2249260
FR	2755152
FR	2752851
KR	10-0687701
KR	10-0688607
KR	10-0830555
KR	10-0870987

RECORDED: 05/16/2017

PATENT  
REEL: 042400 FRAME: 0847

RECORDED: 03/22/2019

PATENT  
REEL: 048679 FRAME: 0080