

02-25-03

FLH Ref. No.: 450100-04062

	The state of the s	RECORDATION FOR PATENT:	~~ ~~	2003	ARTMENT OF COMMERCE		
	the Honorable Commissioner of Patents	and Trademarks: Ple	a		or copy thereof.		
1.	lame of conveying party(ies)	2.25.03	102503	3092	ie)		
	Lachtan MICHAEL, Mohammad GHAVAMI, Ryuji KOHNO		7-35 Kitashinagawa 6-chome Shinagawa-Ku, Tokyo 141-0001, Japan				
	Additional name(s) of conveying party(i	es) attached?	Additional name(s) &	address(es) attached	d? <u>Y</u> es <u>x</u> No		
3.	Nature of conveyance:						
<u>.x</u> .	Assignment Security Agreement	İ					
= :	Merger						
_ :	Change of Name Other						
Exo <u>Deg</u>	ution Date(s): November 20, 2002, January 19, 2002	ry 6,2003 and		و المدال المحمولة المستعملة والمستعملة المستعملة المستعمل المستعملة المستعملة المستعملة المستعملة المستعملة ال	e e		
4.	4. Application number(s) or patent number(s):						
	If this document is being filed together with a new application, the execution date of the application is:						
	A. Patent Application No.(s) 10/200,953 filed July 22, 2002						
	Additional numbers attached? <u>Yes X</u> No						
5.	Name and address of party to whom correspondering document should be mailed:	pondence	6. Total number of a patents involved	pplications and	- <u>1</u>		
Nar	e: WILLIAM S. FROMMER		7. Total fee (37 CFR	3.41)	\$ 40.00		
}	ernal Address: FROMMER LAWRENCE & HAUG LLP		X Enclosed Authorized to be charged to deposit account 50-0320				
	eet Address: 745 FIFTH AVENUE		8. Deposit account n				
C	y: <u>NEW YORK</u> State: <u>N.Y.</u> Zip	: <u>10151</u>	(Attach duplicate cop account)		aying by deposit		
		Do <b>no</b> t use	this space				
9 Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.							
	GLENN F. SAVIT	Jet J.	Dr. T	February	, 25, 2003		
<u>.</u>	Name of Person Signing	Signa.	ture	Total number of pag sheet, attachments,	ate es including cover and document: 4		
	Do not detach this portion						
	Mail documents to be recorded with required cover sheet information to:						
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T: 80	Box Assignments Washington, D.C. 20231						
Fublic burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, D.C. 20503.							

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#### ASSIGNMENT

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

# WIRELESS IMPULSE TRANSMITTER, RECEIVER, AND METHOD

ter 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 7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo 141, Japan (hereinafter referred to as ASSIGNEE) is desirous of acquiring all interest in, to and order 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 tremational 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 the tents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and it terest thereto:

And I further agree to execute all necessary or desirable and lawful future documents, including as signments 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, me diffications, and improvements in said invention, applications and-Letters-Patent of the United States and countries to reign 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, at jor, 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 as didocuments 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  $\epsilon_{\rm I}$  tered 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: 10/200.953, Filing Date: 30.200.

This assignment executed on the dates indicated below.

ischlan MICHAEL	,	
Name of first or sole inventor	Execution date of U.S. Patent Application	
Seitama, Japan		
Residence of first or sole inventor	20 November 2002	
Signature of first or sole inventor	Date of this assignment	
G avami MOHAMMAD		
Name of second inventor	Execution date of U.S. Patent Application	
loxyo, Japan		
Fesidence of second inventor	·	
Signature of second inventor	Date of this assignment	
Eg iji KOHNO		
Name of third inventor	Execution date of U.S. Patent Application	
î∈ <b>cyo,</b> Japan		
Exidence of third inventor		
S gnature of third inventor	Date of this assignment	

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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;

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iachlan MICHAEL	
Name of first or sole inventor	Execution date of U.S. Patent Application
S₃ tama. <mark>Japan</mark>	
Re idence of first or sole inventor	
Si nature of first or sole inventor	Date of this assignment
Mk hammad GHAVAMI	
Name of second inventor	Execution date of U.S. Patent Application
To yo. Japan	
Recidence of second inventor  M - Co-Notes	6/01/2003
Signature of second inventor	Date of this assignment ('JAN-6-2003)
F) Ji KOHNO	
kane of third inventor	Execution date of U.S. Patent Application
To cyo, Japan	
Fesidence of third inventor	
Signature of third inventor	Date of this assignment

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This assignment executed on the dates indicated below.

Lachlan MICHAEL	
Name of first or sole inventor	Execution date of U.S. Patent Application
Saitama, Japan	
Residence of first or sole inventor	
Signature of first or sole inventor	Date of this assignment
Ghavami MOHAMMAD	
Name of second inventor	Execution date of U.S. Patent Application
Tokyo, Japan	
Residence of second inventor	
Signature of second inventor	Date of this assignment
Ryuji KOHNO	
Name of third inventor	Execution date of U.S. Patent Application
Tokyo. Japan	
Residence of third inventor	Dec. 9, 2002
Signature of third inventor	Date of this assignment

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