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Form PTO-1595 (Rev. OMB No. 0651-0027 (e	(b) 6/30/2008		United States Pate	nt and Trademark
To the Director of	the U.S. Patent and Trademark 1035		uments or the new a	addragg(ag) bala
		2. Name and addres	<del> </del>	
Name of conveying party(ies):     Toshiyuki Hisatsune		1		-
		Name:	Sony Corporat	tion
		Internal Address: _		
Additional name(s) of	conveying party(ies) attached? Yes X No	Street Address:		
3. Nature of conv	eyance/Execution Date(s):			
Execution Date(s)	March 28, 2008	1-7-1 Konan – Minato-Ku,		
x Assignment	Merger Change of Name	- William Ru,		
Security Agree	ement Joint Research Agreement	0:4	Talma	
	nterest Assignment	City:		<del></del>
<b>∤                                    </b>		State:		<del>-</del>
Executive Ord	er 9424, Confirmatory License	Country:	JAPAN Z	ip: <u>108-007</u>
Other		Additional name(s) & - attached?	address(es)	Ƴes x No
5 Name and address	Additional numbers attachers attachers to whom correspondence		No	
	ment should be mailed:	6. Total number of a patents involved:	pplications and	1
Name: RAD	ER, FISHMAN & GRAUER PLLC	7. Total fee (37 CFR	1.21(h) & 3.41) \$_	40.00
1	tty. Dkt.: SDE-2317	Authorized to	o be charged by credi	t card
Street Address: 1233 20th Street, N.W.		X Authorized to	o be charged to depos	sit account
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City:	Washington	8. Payment Informat	ion	<del></del>
State:	DC Zip: 20036	-	Last 4 Numbers	
Phone Number:	(202) 955-3750	- )	Expiration Date	
Fax Number:	(202) 955-3751	b. Deposit Account		8-0013
Email Address:		Authorized User	Name Toshikatsu	ı İmaizumi
9. Signature:				
			June 1	2, 2008
	Signature		Da	· -
	Toshikatsu Imaizumi - 61,648  Name of Person Signing		number of pages includ attachments, and docu	
L	rights of Forson Signing			

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> PATENT REEL: 021121 FRAME: 0645

## Docket Number: SDE-2317

## 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

## PRINTER

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 ASSIGNEES) 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 Ten Dollar (\$10.00), 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 ASSIGNEES, 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 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 ASSIGNEES, 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 ASSIGNEES or its designee, as ASSIGNEES 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;

PATENT REEL: 021121 FRAME: 0646

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 ASSIGNEES 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:

3/28/2008. Serial Number: 29/300,462, Filing Date:

This assignment executed on the dates indicated below.

Toshiyuki HISATSUNE

Toskiyubi Hisatrune March 28, 2008
Signature Date

**PATENT** REEL: 021121 FRAME: 0647

**RECORDED: 06/12/2008**