FORM PTO-1595 RE 1/31/92 10186	T U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
To the Honorable Commissioner of Patents and Trademar thereof.	ks: Please Record the attached original documents or copy
1, Name of conveying party(ies):  AKIRA NONAKA TADISHI EZAKI  Additional name(s) of conveying party(ies) attached?  ☐ Yes ☑ No	2. Name and address of receiving party(ies): Name: Sony Corporation  Internal Address: 7-35, Kitashinagawa 6-chome Shinagawa-ku, Tokyo 141, Japan  Street Address:
3. Nature of conveyance:	City: State: Zip Zip No  Additional Name(s) & Address(es) attached □ Yes ▷ No  ○○↑ - 2 2001
<ul> <li>4. Application (number(s) or patent number(s):         If this document is being filed together with a new     </li> <li>A. Patent Application No.(s)         U.S. Serial No. 09/856,276 filed May 16, 200         Attorney Docket No. 09/98423-0006     </li> <li>Additional numbers attached? □ Yes ☒ No</li> </ul>	application, the execution date of the application is:_ B: Patent No.(s) 1
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved  1 7. Total Fee (37 CFR 3.41
SONNENSCHEIN NATH & ROSENTHAL P.O. Box #061080	<ul> <li>☑ Enclosed</li> <li>☑ Authorized to be charged to deposit account any Additional fees</li> </ul>
Wacker Drive Station Sears Tower Chicago, IL 60606-1080 Customer ID No. 26263	8. Deposit Account Number:  19.3140  (Attach duplicate copy of this page if paying by deposit account)
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## ASSIGNMENT

FOR a valuable consideration, the s	sufficiency and receipt of which is hereby acknowledged, the undersigned
Akira Nonaka Tadashi Ezaki	
whose mailing address(es) is/are:	
c/o Sony Corporation 7-35, Kitashinagawa 6-chome Shinagawa-ku, Tokyo 141, Japan	
hereby sell(s), assign(s) and transfer at 7-35, Kitashinaga Shinagawa-ku, T	
the whole right, title and interest in	and to a certain invention or improvement in
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Rosenthal of Chicago, Illinois, and exof said firm as Case No. 9798423-0 with all improvements thereon and boff or for said application, and all rig	ers Patent of the United States, prepared by the firm of Sonnenschein, Nath & xecuted of even date herewith, said application being identified in the office records 006, and in and to the United States Letters Patent therefor, when issued, together etterments thereof, all divisions, continuations and reissues thereof and substitutions hts and privileges under the Letters Patent that may be granted therefor, including arlier filing date for the same invention in a foreign country.
	request the Commissioner of Patents to issue the Letters Patent that may be granted to said
or its assigns full and complete informs in said application, and will cooper procurement of patent protection to new, divisional, continuing and reiss United States Patent Office or in the	a, I/we hereby agree that I/we will promptly communicate to the aforesaid assignee rmation concerning said improvements or betterments of the inventions disclosed ate at any time upon request of said assignee or its assigns, at its expense, in the cover the inventions herein assigned and to be assigned, including the execution of sue applications; will make all rightful oaths, will testify in any proceedings in the Courts, and generally will do everything lawfully possible to aid said assignee, its o obtain, enjoy and enforce proper patent protection for the inventions embraced
DATE: True, 11, 200/	Akira Nonaka
DATE:	Todiski Doshi
	Tadishi Ezaki

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## ASSIGNMENT

FOR a valuable consideration, the sufficiency and receipt of which is hereby acknowledged, the undersigned
Akira Nonaka Tadashi Ezaki
whose mailing address(es) is/are:
c/o Sony Corporation 7-35, Kitashinagawa 6-chome Shinagawa-ku, Tokyo 141, Japan
hereby sell(s), assign(s) and transfer(s) unto <u>Sony Corporation</u> , a corporation of <u>Japan</u> , having its principal office at <u>7-35, Kitashinagawa 6-chome</u> <u>Shinagawa-ku, Tokyo 141, Japan</u>
the whole right, title and interest in and to a certain invention or improvement in
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disclosed in an application for Letters Patent of the United States, prepared by the firm of Sonnenschein, Nath & Rosenthal of Chicago, Illinois, and executed of even date herewith, said application being identified in the office records of said firm as Case No. 9798423-0006, and in and to the United States Letters Patent therefor, when issued, together with all improvements thereon and betterments thereof, all divisions, continuations and reissues thereof and substitutions of or for said application, and all rights and privileges under the Letters Patent that may be granted therefor, including the right to claim the benefit of an earlier filing date for the same invention in a foreign country.  I/We hereby authorize and request the Commissioner of Patents to issue the Letters Patent that may be granted for said invention or improvements to said
For the same consideration, I/we hereby agree that I/we will promptly communicate to the aforesaid assignee or its assigns full and complete information concerning said improvements or betterments of the inventions disclosed in said application, and will cooperate at any time upon request of said assignee or its assigns, at its expense, in the procurement of patent protection to cover the inventions herein assigned and to be assigned, including the execution of new, divisional, continuing and reissue applications; will make all rightful oaths, will testify in any proceedings in the United States Patent Office or in the Courts, and generally will do everything lawfully possible to aid said assignee, its successors, assigns and nominees to obtain, enjoy and enforce proper patent protection for the inventions embraced within the terms of this document.
DATE:Akira Nonaka
DATE: June 4, 2001 <u>Jadas lu Ezaki</u> Tadishi Ezaki
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<b>¾X</b> X

**RECORDED: 10/02/2001** 

PATENT REEL: 012223 FRAME: 0444