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Mamoru SHOJI, Takashi ISHIDA, Atsushi I and Junichi MINAMINO	NAKAMURA	Name: Matsushita Electric Industrial Co., Ltd.
Additional name(s) of conveying party(ies) attached? No		Street Address: 1006, Oaza Kadoma, Kadoma-shi
3. Nature of conveyance:	161PE	City: Osaka 571-8501 Country: Japan
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Execution Date: September 13, 1999  4. Application number(s) or patent number(s):	· Note that is	
4. Application number(s) or patent number(s).		
A. Patent Application No.(s) 09/395,218, filed September 14, 199	E	the execution date of the application is:  3. Patent No.(s)  , issued
	ditional numbers a	
5. Name and address of party to whom corrections document should be mailed:	spondence 6	6. Total number of applications and patents involved: 1
Name: <u>WENDEROTH, LIND &amp; PONACK, L</u> <u>Attn: Jeffrey R. Filipek</u>	<u>.L.P.</u> 7	7. Total fee (37 CFR 3.41) \$40.00  X Enclosed (Check No 3 6 2 8 8)
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## ASSIGNMENT

	In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned
	Mamoru SHOJI, Takashi ISHIDA, Atsushi NAKAMURA and
	Junichi MINAMINO
nsert Name(s) of Inventor(s)	
	the undersigned hereby sell(s) and assign(s) to
insert Name(s)	Matsushita Electric Industrial Co., Ltd.
of Assignee(s)	of 1006, Oaza Kadoma, Kadoma-shi, OSAKA 571-8501 JAPAN
	(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as
litle of	RECORDING MEDIUM, RECORDING APPARATUS AND
nvention	RECORDING METHOD
Date of Signing	for which an application for patent in the United States has been executed by the undersigned or
of Application	September 13, 1999

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

PATENT REEL: 010500 FRAME: 0152 The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 2033 K Street, N.W., Suite 800, Washington, DC 20006, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s). Date Oct. 26 1999, Name of Inventor Mamoru Shoji Date Oct 26, 1999, Name of Inventor Jakashi Ishida

Date Oct 26, 1999, Name of Inventor Atsushi Nakamusa Cct 26, 1999, Name of Inventor Junichi Minamino Date \_\_\_\_\_\_, Name of Inventor \_\_\_\_\_ Date \_\_\_\_\_\_, Name of Inventor \_\_\_\_\_ (This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.) Witness Hideli Serasana ACKNOWLEDGEMENT This \_\_\_\_\_\_, 19\_\_\_\_\_, before me personally came the above-named\_\_\_\_\_ to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth. Official Signature SEAL Official Title The above application may be more particularly identified as follows: U.S. Application Serial No. \_\_\_\_\_\_Filing Date September 14, 1999 Applicant Reference Number 530052 MaI Atty Docket No.\_\_\_\_\_ Title of Invention RECORDING MEDIUM, RECORDING APPARATUS AND RECORDING METHOD

RECORDED: 12/29/1999

PATENT | REEL: 010500 FRAME: 0153