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PATENT

REEL: 011768 FRAME: 0833

ASSIGNMENT

WHEREAS, the ASSIGNOR(S), being the following named inventors(s):

Harumitsu Miyashita 5-15-B101, Niina, Mino-shi Osaka 562-0005 Japan

Shinichi Konishi 11-34-3, Tedukayama Minami 5-chome, Nara-shi Nara 631-0064 Japan

Takeshi Nakajima 2047-8, Oshikumacho, Nara-shi Nara 631-0011 Japan

Toshihiko Takahashi 5-5, Mikanodai 2-chome, Kawachinagano-shi Osaka 586-0044 Japan

For: INFORMATION RECORDING AND REPRODUCTION APPARATUS U.S. Patent Application Serial No. 09/770,778 for which application for Letters Patent of the United States was executed on the date indicated below, and

WHEREAS, the ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, Oaza Kadoma, Kadomashi Osaka 571-8501 Japan

is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefor.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR(S) of the sum corresponding to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR(S) hereby covenants that no assignment, sale, agreement, charge or other encumbrance has been or will be entered into which would conflict with this assignment and sale.

PATENT REEL: 011768 FRAME: 0834 ASSIGNOR(S) further covenants 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 as may be known and accessible to ASSIGNOR(S) and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or his legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Signed:	Date:
) Garumitan Miyashita Harumitsu Miyashita	March 23, 2001
Shinichi Konishi	March 23, 2001
Shinichi Konishi	
Takeshi Nakajime	March 23, 200/
Takeshi Nakajima Takahashi Toshihiko Takahashi	March 23, 200/
Toshihiko Takahashi	

PATENT RECORDED: 05/04/2001 REEL: 011768 FRAME: 0835