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PATENTS ONLY

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Jun Akiyama (09/24/2009)	Internal Address:			
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A. Patent Application No.(s)	B. Patent No.(s)			
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ASSIGNMENT

I/We, Masaki YAMAMOTO, Hirohisa YAMADA, Yasuhiro HARADA, Hideharu TAJIMA and Jun AKIYAMA (inventors), for good and valuable consideration from SHARP KABUSHIKI KAISHA (assignee), having its principal place of business at 22-22, Nagaike-cho Abeno-ku Osaka-shi Osaka 545-8522 Japan (address) hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in, to and under an application for Letters Patent of the United States Serial for improvements in the OPTICAL filed on INFORMATION RECORDING MEDIUM REPRODUCING APPARATUS, METHOD FOR REPRODUCING OPTICAL INFORMATION RECORDING MEDIUM, PROGRAM FOR REPRODUCING OPTICAL INFORMATION RECORDING MEDIUM, AND COMPUTER READABLE RECORDING MEDIUM (title) priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, in any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent.

And for the above consideration I/We agree promptly upon request of the Assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, divisional, continuation or reissue, or other papers which may be necessary or desirable fully to secure to the Assignee, its successors and assigns, the inventions and any of them described in said application and all patent rights therein, in the United States and in any country foreign thereto.

The undersigned agree(s) to furnish all pertinent facts and documents relating to said application, said invention and said patent(s) as may be known and accessible to the undersigned, and will testify as to the same in any interference or litigation related thereto, and will promptly execute and deliver to Assignee any and all papers, instruments or affidavits necessary or desirable to apply for, obtain, maintain or enforce said application or said patent(s) in connection with any interference which may be declared, and any litigation concerning this application or any continuation, division or reissue thereof or Patent(s) or reissue patent(s) issued thereon, and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference or litigation.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the 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(s) to the Assignee and to vest all rights therein

PATENT REEL: 023380 FRAME: 0043 hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner for Patents to issue any and all Letters Patents of the United States of America 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 the undersigned has (have) the full right to convey the entire interest herein assigned, and that the undersigned has (have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants Edwards Angell Palmer & Dodge LLP of P.O. Box 55874, Boston, MA 02205, U.S.A. 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 U.S. Patent and Trademark, Office for recordation of this document.

I, Masaki YAMAMOTO, hereunto set my hand and seal this 24th day of

September, 200 \(\frac{\gamma}{2}\)

I, Hirohisa YAMADA, hereunto set my hand and seal this \(\frac{24^{th}}{24^{th}}\) day of

September, 200 \(\frac{9}{2}\).

I, Yasuhiro HARADA, hereunto set my hand and seal this \(\frac{24^{th}}{24^{th}}\) day of

Septein her, 2009.

Yasuhira Karada

PATENT REEL: 023380 FRAME: 0044

I, <u>Hideharu TAJIMA</u>	, hereunto se	et my hand and	seal this	24th day of
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Hideharu Jajima

I, Jun AKIYAMA, hereunto set my hand and seal this 24th day of

RECORDED: 10/07/2009

PATENT