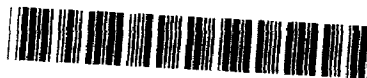


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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):
Tazuko Kitazawa (08/19/2010) and Noboru Iwata (08/19/2010)
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Sharp Kabushiki Kaisha
Internal Address: _____
Street Address: _____
22-22, Nagaike-cho
Abeno-ku
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545-8522 JAPAN
City: _____
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3. Nature of conveyance/Execution Date(s):
Execution Date(s): in parentheses after inventor name
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4. Application or patent number(s): This document is being filed together with a new application.
A. Patent Application No.(s)
B. Patent No.(s)
Additional numbers attached? Yes No

B. Patent No.(s)
12 923355
 Yes No

5. Name and address to whom correspondence concerning document should be mailed:
Name: William L. Brooks
EDWARDS ANGELL PALMER & DODGE
LLP
Internal Address: Atty. Dkt.: 87143(70904)
Street Address: P.O. Box 55874
City: Boston
State: MA Zip: 02205
Phone Number: (202) 478-7376
Fax Number: (866) 658-1050
Email Address: wbrooks@eapdlaw.com

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information
Deposit Account Number 04-1105
Authorized User Name William L. Brooks

9. Signature: William L. Brooks
Signature _____ Date September 16, 2010
Name of Person Signing William L. Brooks - 34,129
Total number of pages including cover sheet, attachments, and documents: 3

Docket No.

A S S I G N M E N T

I/We, Tazuko KITAZAWA and Noboru IWATA (inventors), for good and valuable consideration from SHARP KABUSHIKI KAISHA (assignee), having its principal place of business at 22-22, Nagaïke-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 No. _____ filed on _____ for improvements in the WAVEGUIDE, RECORDING HEAD, AND RECORDING DEVICE (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 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.

PATENT

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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, Tazuko KITAZAWA, hereunto set my hand and seal this 17th day of August, 2010.

Tazuko Kitagawa

I, Noboru IWATA hereunto set my hand and seal this 17th day of August, 2010.

Noboru Iwata