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PATENTS ONLY To the Director of the U.S. Patent and Trademark Office; Please record the attached documents or the new address(es) below. 2. Name and address of receiving party(ies) 1. Name of conveying party(ies): Masayuki KASHIMA Name: OKI ELECTRIC INDUSTRY CO., LTD. Internal Address: X No Additional name(s) of conveying party(ies) attached? Street Address: Nature of conveyance/Execution Date(s): 3-16-11 Nishi Shimbashi, Minato-ku Execution Date(s): December 1, 2008 Merger x Assignment Change of Name City: Tokyo Security Agreement Joint Research Agreement Government Interest Assignment State: Zip: 105-8460 Executive Order 9424, Confirmatory License **JAPAN** Country: Additional name(s) & address(es) Yes attached? 4. Application or patent number(s): X This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) This application Additional numbers attached? x No Yes 5. Name and address to whom correspondence . Total number of applications and concerning document should be mailed: patents involved: Name: Robert H. Berdo, Jr. RABIN & BERDO, PC 7. Total fee (37 CFR 1.21(h) & 3.41) 40.00 Internal Address: Atty. Dkt.: MAE-497 Street Address: 1101 14th St., NW Authorized to be charged to deposit account Suite 500 None required (government interest not affecting title) Washington City: 8. Payment Information DC 20005 State: Zip: (202) 371-8976 Phone Number: (202) 408-0924 Fax Number: **Deposit Account Number** Authorized User Name firm@rabinberdo.com **Email Address:** 9. Signature: December 22, 2008

Robert H. Berdo, Jr. - 38,075

Name of Person Signing

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OMB No. 0651-0027 (exp. 12/31/2008)

PATENT REEL: 022061 FRAME: 0115

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT
WHEREASMasayuki KASHIMA hereinafter referred to collectively as the assignor, has invented a certain improvement relating toPASSIVE OPTICAL NETWORK COMMUNICATION SYSTEM
[X] the inventor(s) declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office; [] said application having been filed in the United States Patent and Trademark Office on,
AND WHEREAS Oki Electric Industry Co., Ltd. of 3-16-11 Nishi Shimbashi, Minato-ku, Tokyo, 105-8460, Japan hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial amanner as the said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all renewals, reissues and prolongations thereof. AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including an
Rabin & Berdo, PC All practitioners at Customer Number 23995. AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.
EXECUTED, December 1, 2008
WITNESS: ASSIGNOR:
Signature: Hideaki Jamas Signature: Masayski Kashima
Name: <u>Masayuki KASHIMA</u>

Attorney Reference _

RABIN & BERDO, P.C., Washington, D.C.

RECORDED: 12/22/2008

PATENT REEL: 022061 FRAME: 0116