Docket No.: N01308US FORM PTO-1595 (Modified) 04-04-2002 U.S. DEPARTMENT OF COMMERCE (Rev. 6-93) 29/02 OMB No. 0651-0011 (exp.4/94) Patent and Trademark Office Copyright 1996-97 LegalStar POBA/REV02 Tab settings -To the Honorable Commissioner of Patents and Trademarks. Flease 160010 and attached original documents or copy thereof. 1. Name of conveying party(iest) 2. Name and address of receiving party(ies): Hideo Kikuchi Satoshi Nakamura Name: NEC Corporation Mitsuo Saitou Address: 7-1, Shiba 5-chome, Minato-ku, Additional names(s) of conveying party(ies) ☐ Yes 🔀 No 3. Nature of conveyance: ☑ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name City: Tokyo _____ State/Prov.: ☐ Other Country: JAPAN ____ ZIP: Execution Date: December 20, 2001 Additional name(s) & address(es) ☐ Yes X No 4. Application number(s) or registration numbers(s): If this document is being filed together with a new application, the execution date of the application is: Patent Application No. Filing date B. Patent No.(s) 10/028,920 **December 28, 2001** ☐ Yes 🛛 No Additional numbers 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: Sean M. McGinn, Esq. 7. Total fee (37 CFR 3.41):....\$ 40.00 34,386 Registration No. ☑ Enclosed - Any excess or insufficiency should be credited or debited to deposit account Address: McGinn & Gibb, PLLC ☐ Authorized to be charged to deposit account 8321 Old Courthouse Road, Suite 200 8. Deposit account number: City: Vienna _____ State/Prov.: VA 50-0481 Country: USA ZIP: 22182-3817 04/03/2002 LMUELLER 00000008 10028920 DO NOT USE THIS SPACE 01 FC:581 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. March 29, 2002 Sean M. McGinn, Esq. Name of Person Signing Signature Date Total number of pages including cover sheet, attachments, and

REEL: 012738 FRAME: 0283

ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS

NAME AND ADDRESS OF ASSIGNOR HIDEO KIKUCHI, SATOSHI NAKAMURA and MITSUO SAITOU c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

(HEREINAFTER REFERRED TO AS ASSIGNOR), have invented and own a certain new and useful invention entitled:

TITLE OF INVENTION:

OPTICAL MODULE AND METHOD FOR MANUFACTURING THE SAME

FULL NAME AND ADDRESS OF ASSIGNEE

WHEREAS NEC Corporation 7-1, Shiba 5-chome, Minato-ku Tokyo, Japan

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title, and 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 of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR, by these presents, hereby sells, assigns and transfers to ASSIGNEE the entire 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 hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States Patent obtained therefor on said application or any

(Assignment of Application for Patent -- page 1 of 2)

PATENT REEL: 012738 FRAME: 0284 continuation, division, renewal, substitute or reissue thereof for the full term or terms to said ASSIGNEE, of the entire right, title, and interest in and to the same, for his sole use and behoof, and for the use and behoof of his legal representatives, to the full end of the term or terms for which said Letters Patent obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as full and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR 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 and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its 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.

DATE OF SIGNING

WITNESSES

IN WITNESS WHEREOF, I/We have hereunto set

hand and seal this 20th day of December 2001.

SIGNATURE	By: Mideo Mikuchi
SIGNATURE	HIDEO KIKUCHI By: Satushi Nokumia SATOSHI NAKAMURA
SIGNATURE	By: Mitsuo Saitou
SIGNATURE	By:
SIGNATURE	Ву:
SIGNATURE	Ву:
SIGNATURE	Ву:

(Assignment of Application for Patent - page 2 of 2)

PATENT RECORDED: 03/29/2002 REEL: 012738 FRAME: 0285