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1. Name of conveying party(ies):
Isao TAKENAKA

Additional name(s) of conveying party(ies) attached?
 yes no

2. Name and address of receiving party(ies)?
NEC CORPORATION
7-1, Shiba 5-chome
Minato-ku, Tokyo, Japan

Additional name(s) & address(es) attached?
 yes no

1-534 U.S. PTO
09/421272
10/20/99

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Names
 Other

Execution Date: October 12, 1999

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: October 12, 1999
A. Patent Application No.(s) _____ B. Patent No.(s) *09/421272*
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and registration involved:
1
7. Total Fee (37 CFR 3.41): \$40.00
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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.
J. Frank Osha _____ October 20, 1999
J. Frank Osha Reg. No. 24, 625 Date

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10/28/1999 DNGUYEN 00000227 09421272

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**PATENT
REEL: 010334 FRAME: 0458**

Assignment

Whereas, ~~I/We~~, ISAO TAKENAKA of
Tokyo, Japan

hereinafter called assignor(s), have invented certain improvements in
PHASE SHIFTER HAVING TWO TRANSMISSION SIGNAL PATHS INDEPENDENTLY COUPLED
WITH UNBALANCED SIGNAL TRANSMISSION PATH AND BALANCED SIGNAL TRANSMISSION
PATH
and executed an application for Letters Patent of the United States of America therefor on
October 12, 1999 ; and

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

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to
any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

~~I/We~~, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its
successors and assigns, the entire right, title and interest in the application and the invention disclosed
therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and
~~I/we~~ request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth
in the application to the assignee, its successors and assigns; and ~~I/we~~ will execute without further
consideration all papers deemed necessary by the assignee in connection with the United States application
when called upon to do so by the assignee.

~~I/We~~ hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of
2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses (Application
number _____, filed _____) the filing date and application
number of said application when known.

Date: October 12, 1999 s/ Isao Takenaka 
ISAO TAKENAKA

Date: s/ _____

Date: s/ _____

Witness:
Date: October 12, 1999 s/ Yutoshiki Ukai

Witness:
Date: October 12, 1999 s/ [Signature]

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)