



02-02-2001



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1. Name of conveying party(ies):

Yutaka URINO

1-29-01

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

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Names☐ Other

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☐ yes☒ no

Execution Date: October 16, 2000

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:

A. Patent Application No.(s)/Confirmation No.(s)

09/685,769 /

B. Patent No.(s)

Additional numbers attached?

☐ Yes☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

J. Frank Osha, Esq.

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC

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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

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January 29, 2001

Date

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PATENT
REEL: 011477 FRAME: 0215

For Non-U.S. Clients

Assignment

Whereas, ~~I~~^{XX} ~~We~~, I, Yutaka Urino of
c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku,
Tokyo, Japan

hereinafter called assignor(s), have invented certain improvements in
ARRAYED WAVEGUIDE GRATING HAVING ARRAYED WAVEGUIDE EMPLOYING TAPER STRUCTURE
and executed an application for Letters Patent of the United States of America therefor on
October 16, 2000 ; 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 09/685,769, filed October 11, 2000) the filing date and application
number of said application when known.

Date: October 16,
2000

s/

Yutaka Urino

Yutaka Urino

Date:

s/

Date:

s/

Witness:

Date: October 16,
2000

s/

Fumitake Watanabe

Fumitake Watanabe

Date: October 16,
2000

s/

Akira Muto

Akira Muto

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