

09-08-1998

FORM PTO-1595 (modified)  
(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

U.S. DEPARTMENT OF COMMERCE  
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100822885

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1. Name of conveying party(ies):  
Yuji MAKINO  
Additional name(s) of conveying party(ies) attached? No

2. Name and address of receiving party(ies):  
Name: NEC CORPORATION  
Internal Address:  
Street Address: 7-1, Shiba 5-chome, Minato  
City: Tokyo, State: Japan ZIP:  
Additional name(s) & address(es) attached? No

1588 U.S. PTO  
09/14/719  
08/27/98

3. Nature of conveyance:  
 Assignment                       Merger  
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 Other \_\_\_\_\_  
Execution Date: July 31, 1998

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: July 31, 1998  
A. Patent Application No.(s)  
B. Patent No.(s)  
Additional numbers attached? No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: David A. Blumenthal  
Internal Address: FOLEY & LARDNER  
Street Address: 3000 K Street, N.W., Suite 500  
City: Washington, State: D.C. ZIP: 20007-5109

6. Total number of applications and patents involved: 1  
7. Total fee (37 C.F.R. § 3.41). . . . . \$40.00  
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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.*  
for Phillip J. Anticola  
David A. Blumenthal  
Name of Person Signing  
Phillip J. Anticola  
Signature  
August 27, 1998  
Date  
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Total number of pages including cover sheet, attachments, and document: 2

Mail documents to be recorded with required cover sheet information to:  
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PATENT  
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# ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

name and  
address of  
assignee

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

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to this invention relating to

title of  
invention

**PHASE-LOCKED LOOP CIRCUIT**

as set forth in this United States Patent Application

check one

- executed concurrently herewith
- executed on \_\_\_\_\_
- Serial No. \_\_\_\_\_ Filed \_\_\_\_\_

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of **FOLEY & LARDNER** the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

<b>NAMES AND SIGNATURES OF INVENTORS</b>		
Name: Yuji MAKINO	Signature: <i>Yuji Makino</i>	Date: 31/7/1998
Name:	Signature:	Date:
Name:	Signature:	Date:
Name:	Signature:	Date:
<b>NAMES AND SIGNATURES OF WITNESSES</b>		
Name:	Signature: <i>[Signature]</i>	Date: 31/7/1998
Name:	Signature: <i>[Signature]</i>	Date: 31/7/1998

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