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Form PTO-1595 1 31-92		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.			
1. Name of conveying party(ies): Allen CRAIG, Olaf ROSTBAKKEN  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> 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? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Names <input type="checkbox"/> Other			
Execution Date: October 7, 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: A. Patent Application No.(s) 09/359,743 B. Patent No.(s)  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 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 <input checked="" type="checkbox"/> Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880. <input type="checkbox"/> Authorized to be charged to Deposit Account	
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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.  J. Frank Osha Reg. No. 24,625 October 18, 1999 Date			
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Do not detach this portion  Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Box Assignments Washington, D.C. 20231			

PATENT  
REEL: 010316 FRAME: 0145

# Assignment

Whereas, ~~1~~/We, ALLEN CRAIG and OLAF ROSTBAKKEN of  
Berkshire, United Kingdom

hereinafter called assignor(s), have invented certain improvements in  
DUAL-BAND VOLTAGE CONTROLLED OSCILLATOR IN WHICH  
UNNECESSARY CIRCUIT PARASITICS CAN BE AVOIDED

and executed an application for Letters Patent of the United States of America therefor on  
October 7, 19 99; 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,

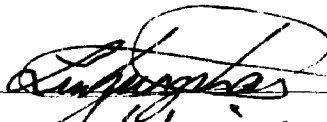

~~1~~/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its  
successors and assigns, the entire right, title and interest in the application and the invention disclosed  
therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and  
~~1~~/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 ~~1~~/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.

~~1~~/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 09/359,743, filed July 23, 1999) the filing date and application  
number of said application when known.

Date: October 7, 1999 s/ Allen Craig  
ALLEN CRAIG

Date: s/ \_\_\_\_\_  
OLAF ROSTBAKKEN

Witness:

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

# Assignment

Whereas, ~~we~~, ALLEN CRAIG and OLAF ROSTBAKKEN  
Berkshire, United Kingdom

of

hereinafter called assignor(s), have invented certain improvements in  
MULTI-BAND VOLTAGE CONTROLLED OSCILLATOR IN WHICH  
UNNECESSARY CIRCUIT PARASITICS CAN BE AVOIDED  
and executed an application for Letters Patent of the United States of America therefor on  
October 7, 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,

~~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  
~~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 ~~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.

~~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 09/359,743, filed July 23, 1999) the filing date and application  
number of said application when known.

Y Date: October 7, 1999 sl Allen Craig  
X Date: October 7, 1999 sl Olaf Rostbakken  
ALLEN CRAIG  
OLAF ROSTBAKKEN

Witness:

\* Farham Bagheri

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

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