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Form PTO-1595

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U.S. DEPARTMENT OF COMMERCE

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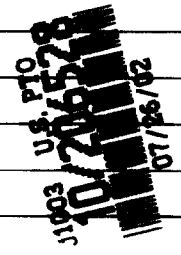
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Patent and Trademark Office
Docket No.: SHM-02101

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Kazuaki KUNIHIRO
Additional name(s) of conveying party(ies) attached?
Yes No 7.26.02

2. Name and address of receiving party(ies)
Name: NEC Corporation
Internal Address: _____
Street Address: _____
7-1 Shiba 5 chome
Minato-ku, Tokyo JAPAN
Additional name(s) & address(es) attached? Yes No



3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other: _____
Execution Date: June 19, 2002

4. Application number(s) or patent number(s): 10/206528
If this document is being filed together with a new application, the execution date of the applications is: June 19, 2002
A. Patent Application No.(s) _____ B. Patent No.(s) _____
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Patent Group
Internal Address: Hutchins, Wheeler & Dittmar
Street Address: 101 Federal Street
City: Boston State: MA ZIP: 02110

6. Total number of applications and patents involved: (1)
7. Total fee (37 CFR 3.41).....\$ 40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number: 50-1136
(Attached duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.
Donald W. Muirhead; 33,978 [Signature] July 26, 2002
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: 2

Mail documents to be recorded with required covered sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

06/06/2002 LNUELLER 00000055 10206528
01 FC:581 40.00 DP

HWDHWD2 1018327v1

PATENT
REEL: 013144 FRAME: 0975

ASSIGNMENT

WHEREAS, each of the Undersigned has developed certain inventions described in U.S. patent application entitled:

A variable capacitor and a variable inductor

- (x) executed on even date herewith;
() executed on _____;
() now U.S. Application No. _____ filed _____;

and has full right to convey their entire interest, both legal and equitable, in and to said inventions free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and

WHEREAS, NEC Corporation ("ASSIGNEE"), a Japanese corporation having executive offices at 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan, is desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by each of the Undersigned, each of the Undersigned hereby sells, assigns and transfers unto said ASSIGNEE, its successors and assigns, their entire right, title and interest in and to said invention or inventions, as described in the aforesaid application and all applications resulting therefrom, including any and all divisionals, continuations, continuations in part, substitute application, and reissues or extensions thereof; and all resulting patents;

AND each of the Undersigned hereby authorizes and requests the issuing authority to issue any and all patents on said application or applications to said ASSIGNEE or its successors and assigns; the Undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND, each of the Undersigned further agrees, without any further payment or compensation by said ASSIGNEE or its successors and assigns, to communicate to said ASSIGNEE, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings whenever requested; to testify in any interference or other legal proceedings, whenever requested; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and to generally do everything possible to aid said ASSIGNEE, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said invention or inventions in this or any foreign country;

Each of the undersigned hereby authorizes Hutchins, Wheeler & Dittmar, of 101 Federal Street, Boston, MA 02110, to insert hereon any further identification information necessary or desirable for recordation of this document.

Inventors(s)

Date Signed

Witnesses

1. Kazuaki Kunihiro (with seal)
Name: Kazuaki KUNIHURO

June 19, 2002

Fumitake Watanabe

2. _____
Name: _____

3. _____
Name: _____

4. _____
Name: _____

() Additional inventors are being named on separately numbered sheets attached hereto.