

06-23-2003



Form PTO-1595

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U.S. DEPARTMENT OF COMMERCE

(Rev. 5/39)  
OMB No. 0651-0011 (exp. 4/94)

102479954

Patent and Trademark Office  
Docket No.: KAM-00701

1. Name of conveying party(ies): **6.13.03**  
 Hiroyuki TAKAHASHI; Yuuji MATSUI; Hiroyuki SATAKE  
 Additional name(s) of conveying party(ies) attached?  
 Yes \_\_\_ No X  
 Nature of conveyance:  
 (X) Assignment ( ) Merger  
 ( ) Security Agreement ( ) Change of Name  
 ( ) Other:  
 Execution Date: June 6, 2003

2. Name and address of receiving party(ies)  
 Name: NEC Electronics Corporation  
 Internal Address: \_\_\_\_\_  
 Street Address: 1753 Shimonumabe, Nakahara-ku,  
Kawasaki, Kanagawa 211-8668, Japan  
 Additional name(s) & address(es) attached? Yes (X) No

17363 U.S. PTO  
 10/461583  
 06/13/03

3. Application number(s) or patent number(s):  
 If this document is being filed together with a new application, the execution date of the applications is: June 6, 2003  
 A. Patent Application No.(s) \_\_\_\_\_ B. Patent No.(s) \_\_\_\_\_  
 Additional numbers attached? Yes \_\_\_ No X

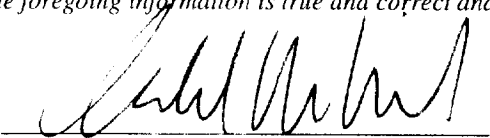
4. Name and address of party to whom correspondence concerning document should be mailed:  
 Name: Patent Group **10461583**  
 Internal Address: Choate, Hall & Stewart  
 Street Address: Exchange Place, 53 State Street  
 City: Boston State: MA ZIP: 02109-2804

5. Total number of applications and patents involved: 1

6. Total fee (37 CFR 3.41).....\$40.00  
 (X) Enclosed  
 \_\_\_ Authorized to be charged to deposit account

7. Deposit account number: \_\_\_\_\_  
 (Attached duplicate copy of this page if paying by deposit account)

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8. 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  June 13, 2003  
 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

06/20/2003 6TON11 00000103 10461583  
 01 FC:8021 40.00 OP

HWD3572702v1

**PATENT**  
**REEL: 014183 FRAME: 0255**

ASSIGNMENT

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

BUS INTERFACE CIRCUIT AND RECEIVER CIRCUIT

- (X) executed on even date herewith;
( ) executed on \_\_\_\_\_;
( ) now U.S. Patent No. \_\_\_\_\_ filed on \_\_\_\_\_;

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 Electronics Corporation ("ASSIGNEE"), a Japanese corporation having executive offices at 1753 Shimonumabe, Nakahara-ku, Kawasaki, Kanagawa 211-8668, 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, transfers and sets over unto said ASSIGNEE, its successors and assigns, the entire right, title and interest throughout the world 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 applications, 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; each of the undersigned agrees that the attorney of record 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; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally to 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 Choate, Hall & Stewart of Exchange Place, 53 State Street, Boston Ma. 02109, to insert hereon any further identification information necessary or desirable for recordation of this document.

Table with 3 columns: Inventor(s), Date Signed, Witness. Includes signatures and names of Hiroyuki TAKAHASHI, Yuuji MATSUI, and Hiroyuki SATAKE, all dated June 6, 2003, with witness signatures.

( ) Additional inventors are being named on a separate sheet attached hereto