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Attorney Docket No.: 108A 3187 PCT

To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

HIDEYUKI NOSAKA, HIROYUKI FUKUYAMA, HIDEKI  
KAMITSUNA, MASAHIRO MURAGUCHI, MIKIO YONEYAMA  
and HIROAKI SASAKI

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

## 2. Name and address of receiving party(ies):

NIPPON TELEGRAPH AND TELEPHONE CORPORATION  
3-1, Otemachi 2-chome  
Chiyoda-ku, Tokyo 100-8116, JapanNTT ELECTRONICS CORPORATION  
12-1, Dogenzaka 1-chome  
Shibuya-ku, Tokyo 150-0043, Japan

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: November 8 and November 7, 2001

Additional name(s) & address(es) attached? ☐ Yes ☒ No

09/979254

## 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: November 8, 2001

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:

William L. Androlia  
KODA & ANDROLIA  
2029 Century Park East, Suite 3850  
Los Angeles, CA 90067-3024

## 6. Total number of applications and patents involved: [ 1 ]

## 7. Total fee (37 CFR 3.41) \$40

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

## 8. Deposit account number:

11-1445

(Attach duplicate copy of this page if paying by deposit account)

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## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.*

William L. Androlia, Reg. No. 27,177

Date: November 20, 2001

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

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents  
Box Assignments  
Washington, D.C. 20231PATENT  
REEL: 012476 FRAME: 0131

**ASSIGNMENT**

(1-8) *Insert Name(s) of Inventor(s)* (1) **HIDEYUKI NOSAKA**  
 (2) **HIROYUKI FUKUYAMA and**  
 (3) **HIDEKI KAMITSUNA**  
 In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) *Insert name of Assignee* (9) **Nippon Telegraph and Telephone Corporation, and**  
**NTT Electronics Corporation**

(10) *Insert state of Incorporation of Assignee* (10) **Japan**

(11) *Insert address of Assignee* (11) **3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8116, Japan, and**  
**12-1, Dogenzaka 1-chome, Shibuya-ku, Tokyo 150-0043, Japan, respectively**  
 (hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) PHASE LOCK CIRCUIT  
 for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

(13) *Insert Date of Signing of Application* (13) on November 8, 2001

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

6) The undersigned hereby appoints WILLIAM L. ANDROLIA, Reg. No. 27,177 and H. HENRY KODA, Reg. No. 27,729 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: Nov. 8, 2001 Signature of Inventor (1) Hideyuki Nosaka  
 Date: Nov. 8, 2001 Signature of Inventor (2) Hiroyuki Fukuyama  
 Date: Nov. 8, 2001 Signature of Inventor (3) Hideki Kamitsuna

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A.; (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date: Nov. 8, 2001 Witness Tsugumichi Shibata  
 Date: Nov. 8, 2001 Witness Kyosaku Ishii

**ASSIGNMENT**

- (1-8) *Insert Name(s) of Inventor(s)* (1) **MASAHIRO MURAGUCHI**  
 (2) **MIKIO YONEYAMA and**  
 (3) **HIROAKI SASAKI**  
 In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to
- (9) *Insert name of Assignee* (9) **Nippon Telegraph and Telephone Corporation, and**  
**NTT Electronics Corporation**
- (10) *Insert state of Incorporation of Assignee* (10) **Japan**
- (11) *Insert address of Assignee* (11) **3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8116, Japan, and**  
**12-1, Dogenzaka 1-chome, Shibuya-ku, Tokyo 150-0043, Japan, respectively**  
 (hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as
- (12) **PHASE LOCK CIRCUIT**  
 for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.
- (13) *Insert Date of Signing of Application* (13) on November 7, 2001 and November 8, 2001, respectively

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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Date: Nov. 8 2001 Signature of Inventor (1) 町口 正弘  
 Date: Nov. 7, 2001 Signature of Inventor (2) 米山 幹夫  
 Date: Nov. 7, 2001 Signature of Inventor (3) 佐々木 広明

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A.; (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date: NOV. 13, 2001 Witness Manabu Itsumi MANABU ITSUMI  
 Date: Nov. 16, 2001 Witness Taisuke Oguchi TAISUKE OGUCHI