

FORM PTO-1595  
1-31-92

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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patents,

101941953

and original documents or copy thereof.

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

Taizo YAMAWAKI  
Takefumi ENDO  
Kazuo WATANABE  
Kazuaki HORI  
Julian HILDERSLEY

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

Name: Hitachi, Ltd./ TTPCom.Limited

Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku  
Melbourn Science Park, Cambridge Road  
Melbourn, SG8 6EE

City: Tokyo/Royston Hertfordshire

Country: Japan/United Kingdom

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

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

Execution Date: May 25, 30, 31, 2001

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

## 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)  
09/787,380 Filed March 19, 2001

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: ANTONELLI, TERRY, STOUT &amp; KRAUS, LLP

Internal Address:

Street Address: 1300 North Seventeenth Street  
Suite 1800

City: Arlington State: VA Zip: 22209

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

7. Total fee (37 CFR 3.41).....\$40.00

- ☒
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- Any deficiencies may 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.*

Gregory E. Montone

Name of Person Signing

Attorney Registration No. 28,141

Total number of pages including cover sheet, attachments, and document: 6

Signature

January 9, 2002

Date

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

09/7873

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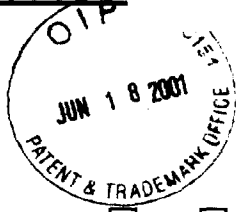


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## 1. Name of conveying party(ies):

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Kazuaki HORI  
Julian HILDERSLEY

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(2) Melbourn Science Park, Cambridge Road  
Melbourn, SG8 6EE

City: (1) Tokyo, (2) Royston Hertfordshire

Country: (1) Japan, (2) United Kingdom

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ NoAdditional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

MRD 6-18-01

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

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09/787, 380 Filed March 19, 2001

B. Patent No.(s)

09787380

Additional numbers attached? ☐ Yes ☒ No

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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.

Melvin Kraus

Name of Person Signing

Attorney Registration No. 22, 466

Total number of pages including cover sheet, attachments, and document: 3

Signature

June 18, 2001

Date

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

# ASSIGNMENT

( 譲渡証 )

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to YAMAWAKI,Taizo, ENDO,Takefumi, WATANABE,Kazuo, HORI,Kazuaki and HILDERSLEY,Julian, citizens of Japan and United Kingdom by HITACHI, LTD., and TTPCom Limited, corporations organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, and Melbourn Science Park, Cambridge Road Melbourn, Royston Hertfordshire, SG8 6EE UNITED KINGDOM, respectively, receipt of which is hereby acknowledged, we, the said YAMAWAKI,Taizo, ENDO,Takefumi, WATANABE,Kazuo, HORI,Kazuaki and HILDERSLEY,Julian, do hereby sell and assign to said HITACHI, LTD., and TTP Com Limited, their successors and assigns, all our right, title and interest, in and for the United States of America, in and to

PLL CIRCUIT AND RADIO COMMUNICATION TERMINAL APPARATUS USING THE SAME  
which is assigned U.S. Patent Application

No. 09/787, 380

invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., and TTP Com Limited, their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD., and TTP Com Limited.

Signed on the date(s) indicated aside signatures:

INVENTOR(S)

(発明者フルネームサイン)

Date Signed

(署名日)

1) YAMAWAKI, Taizo

2) ENDO, Takefumi

3) WATANABE, Kazuo

4) HORI, Kazuaki

5) Julian Hildersley HILDERSLEY, Julian

6) \_\_\_\_\_

7) \_\_\_\_\_

June 11, 2001

# ASSIGNMENT

( 譲 渡 証 )

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to YAMAWAKI,Taizo, ENDO,Takefumi, WATANABE,Kazuo, HORI,Kazuaki and HILDERSLEY,Julian,

citizens of Japan and United Kingdom by HITACHI, LTD., and TTPCom Limited, corporations organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, and Melbourn Science Park, Cambridge Road Melbourn, Royston Hertfordshire, SG8 6EE UNITED KINGDOM, respectively,

receipt of which is hereby acknowledged, we, the said YAMAWAKI,Taizo, ENDO,Takefumi, WATANABE,Kazuo, HORI,Kazuaki and HILDERSLEY,Julian, do hereby sell and assign to said HITACHI, LTD., and TTP Com Limited, their successors and assigns, all our right, title and interest, in and for the United States of America, in and to

PLL CIRCUIT AND RADIO COMMUNICATION TERMINAL APPARATUS USING THE SAME  
which is assigned U.S. Patent Application No. 09/787,380  
No. 0977879380

invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., and TTP Com Limited,

their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD., and TTP Com Limited.

Signed on the date(s) indicated aside signatures:

INVENTOR(S)

(発明者フルネームサイン)

Date Signed

(署名日)

1) Taizo Yamawaki YAMAWAKI, Taizo

5/25/2001

2) Takefumi Endo ENDO, Takefumi

5/30/2001

3) Kazuo Watanabe WATANABE, Kazuo

5/30/2001

4) Kazuaki Hor HORI, Kazuaki

5/31/2001

5) \_\_\_\_\_ HILDERSLEY, Julian

6) \_\_\_\_\_

7) \_\_\_\_\_

PATENT

RECORDED: 01/09/2002

REEL: 012434 FRAME: 0985