

4-14-03

04-17-2003

T&A-116



To the Honorable Commissioner
Please record the attached original 102422468

1. Name of Party(ies) conveying an interest: 2. Name and Address of Party(ies) receiving an interest:

Kazuhisa OKADA
Kazuhiko HIKASA
Patrick WURM
David FREEBOROUGH



HITACHI, LTD.
6, Kanda Surugadai 4-chome
Chiyoda-ku, Tokyo, JAPAN

TTP Com Limited
Melbourn Science Park
Cambridge Road, Melbourn
Royston Hertfordshire SG8 6EE
UNITED KINGDOM

3. Description of the interest conveyed: Assignment

4. Application number(s) or patent number(s).

Additional sheet attached? XXX Yes XXX No

If this document is being filed together with a new application,
the execution date of the application is: DATE

- A. Patent Application No.(s) B. Patent No.(s)

10/372,950

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

John R. Mattingly
Mattingly, Stanger & Malur, P.C.
1800 Diagonal Road, Suite 370
Alexandria, Virginia 22314

6. Number of applications and patents involved: One
7. Amount of fee enclosed or authorized to be charged: \$40.00
8. The Commissioner is hereby authorized to charge Deposit Account No. 50-1417 if no check is attached.

DO NOT USE THIS SPACE

9. Execution date of attached document: March 10, 13 & 18, 2003

10. To the best of my knowledge and belief, I declare under penalty of perjury under the laws of the United States of America that the foregoing information is true and correct and that any attached copy is a true copy of the original document.

Shrinath Malur

Name of Person Signing

[Signature]
Signature

April 14, 2003

Date

Total number of pages being submitted: 3

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04/17/2003 LMUELLER 00000064 10372950
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PATENT
REEL: 013956 FRAME: 0054

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 Kazuhisa OKADA, Kazuhiko HIKASA, Patrick WURM, and David FREEBOROUGH, citizens of Japan, France and United Kingdom by HITACHI, LTD., and TTP Com 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 Kazuhisa OKADA, Kazuhiko HIKASA, Patrick WURM, and David FREEBOROUGH,

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 APPARATUS FOR MOBILE COMMUNICATION SYSTEM

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) Kazuhisa OKADA (Kazuhisa OKADA)

13/ March /2003

2) Kazuhiko HIKASA (Kazuhiko HIKASA)

13/ March /2003

3) _____ (Patrick WURM)

see p. 2

4) _____ (David FREEBOROUGH)

see p. 2

5) _____

6) _____

7) _____

8) _____

9) _____

ASSIGNMENT

(譲 渡 証)

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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.


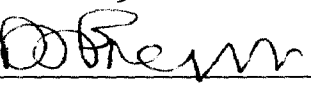
Signed on the date(s) indicated aside signatures:

INVENTOR(S)

(発明者フルネームサイン)

Date Signed

(署名日)

1)	_____ (Kazuhisa OKADA)	_____
2)	_____ (Kazuhiko HIKASA)	_____
3)	 _____ (Patrick WURM)	18/03/03
4)	 _____ (David FREEBOROUGH)	10/3/03
5)	_____	_____
6)	_____	_____
7)	_____	_____
8)	_____	_____
9)	_____	_____