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J.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): HITACHI, LTD. THE TECHNOLOGY PARTNERSHIP PLC
Additional name(s) of conveying party(ies) attached? Yes No

11-14-03

2. Name and address of receiving party(ies)
Name: HITACHI, LTD.
Street Address: 6-Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo Japan
Name: TTPCom Limited
Street Address: Melbourn Science Park, Cambridge Road, Melbourn, Royston, Hertfordshire SG8 6HQ United Kingdom
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: June 23, 2003.

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)
(1) 09/016,302

B. Patent Registration No.(s)
(1) 6,163,585
Additional number(s) attached Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Antonelli, Terry, Stout & Kraus, LLP
Internal Address:
1300 North Seventeenth Street
Suite 1800
Arlington, VA 22209
USA
City: _____ State: _____ Zip: _____

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:
01-2135
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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.
Hung H. Bui, Reg# 40,415
Name of Person Signing
Hung H. Bui
Signature
11/14/2003
Date
Total number of pages including cover sheet, attachments, and document: 4

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

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ASSIGNMENT

WHEREAS, The Technology Partnership PLC, a corporation organized under the laws of the United Kingdom, located at Melbourn Science Park, Cambridge Road, Melbourn Royston, Hertfordshire SG8 6HQ, United Kingdom, and Hitachi, Ltd., a corporation organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoka-ku, Tokyo, Japan, are the exclusive joint owners of the entire right, title, and interest, in and for the United States of America, in and to the following United States Letters Patents and the inventions covered thereby by virtue of an assignment recorded in the U.S. Patent and Trademark Office on January 30, 1998, on reel 8969, frame 759;

U.S. Patent No. 6,163,585 to Yamawaki et al. for "Phase-Locked Loop Circuit and Radio Communication Apparatus Using the Same" which issued on December 19, 2000, from U.S. patent application Serial No. 09/016,302 filed on January 30, 1998; and

U.S. Patent No. 6,324,219 to Yamawaki et al. for "Phase-Locked Loop Circuit and Radio Communication Apparatus Using the Same" which issued on November 27, 2001, from U.S. patent application Serial No. 09/729,721 filed on December 6, 2000, which is a continuation of U.S. patent application Serial No. 09/016, 302 filed on January 30, 1998;

WHEREAS, ITPCom Limited, a corporation organized under the laws of the United Kingdom, located at Melbourn Science Park, Cambridge Road, Melbourn, Royston, Hertfordshire SG8 6HQ, United Kingdom, is desirous of acquiring, The Technology Partnership PLC's entire right, title, and interest, in and for the United States of America, in and to the above-identified United States Letters Patent and the inventions covered thereby;

NOW, THEREFORE, in consideration of good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, The Technology Partnership PLC does hereby sell and assign its entire right, title, and interest, in and for the United States of America, in and to the above-

identified United States Letters Patents and the inventions covered thereby, and any reissue or reissues of any of the above-identified United States Letters Patents already granted or which may be granted, to TTPCom Limited, its successors and assigns, the same to be held and enjoyed by TTPCom Limited, its successors and assigns, or other legal representatives, to the full end of term for which the above-identified United States Letters Patent are granted or reissued, as fully and entirely as the same would have been held and enjoyed by The Technology Partnership PLC if this assignment and sale had not been made; together with all claims for damages by reason of past infringement of the above-identified United States Letters Patent, with the right to sue for and collect such damages for the use and behoof of TTPCom Limited, its successors and assigns, or other legal representatives.

IN TESTIMONY WHEREOF, The Technology Partnership PLC has caused these presents to be signed by its duly authorized officer on the date set forth below.

23rd JUNE, 2003

Date Signed

THE TECHNOLOGY PARTNERSHIP PLC

P Taylor

Peter Taylor

Managing Director, ~~TTP Group~~
The Technology Partnership PLC.