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Attorney Docket No. 520.43016X00

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

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

1. Name of conveying party(ies): MATSUHASHI, SATOSHI MATSUDA, TOSHIYUKI SHIMIZU, KOUICHI OGAWA, TARO

8.7.03

2. Name and address of receiving party(ies) Name: HITACHI COMMUNICATION TECHNOLOGIES, LTD. Address: 26, Minami Ooi 6-chome, Shinagawa-ku, Tokyo, Japan

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

3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other

Execution Date: July 10, 10, 11, and 16, 2003.

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: July 10, 10, 11, and 16, 2003.

A. Patent Application No.(s) 10635552

B. Patent Registration No.(s)

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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Carl I. Brundidge, Reg# 29,621

August 7, 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 cover sheet information to: Commissioner of Patent & Trademarks, Box Assignments Washington, D.C. 20231

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ASSIGNMENT  
( 譲渡証 )

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Hitachi Communication Technologies,Ltd.  
a corporation organized under the laws of Japan,  
located at 26, Minami Ooi 6-chome, Shinagawa-ku, Tokyo, Japan,  
receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi Communication Technologies,Ltd.  
its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

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METHOD

invented by me (if only one is named below ) or us (if plural inventors are named below ) 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 Communication Technologies,Ltd.  
its 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 me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the 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 I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi Communication Technologies,Ltd.

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)  
(発明者フルネームサイン)

Date Signed  
(署名日)

1) <u>Satoshi MATSUHASHI</u>	<u>July 10, 2003</u>
2) <u>Toshiyuki MATSUDA</u>	<u>July 10, 2003</u>
3) <u>Kouichi SHIMIZU</u>	<u>July 11, 2003</u>
4) <u>Taro Ogawa</u>	<u>July 16, 2003</u>
5) _____	_____
6) _____	_____
7) _____	_____
8) _____	_____
9) _____	_____
10) _____	_____