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To the Honorable Commission. Please record the attached original documents or copy thereon.

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Seichi SANO, Toshiyuki AKIYAMA, Atsushi MIYASHITA, Nobuo TSUKAMOTO
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Hitachi Denshi Kabushiki Kaisha
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City: _____ State: _____ ZIP: _____
Additional name(s) & address(es) attached? Yes No

Nature of conveyance: MRD 6-11-98
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Execution Date: May 28, 1998

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: May 28, 1998
A. Patent Application No.(s) 09/096454
B. Patent No.(s)
Additional numbers attached? Yes No

Name and address of party to whom correspondence concerning document should be mailed:
Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP
Internal Address: _____
Street Address: 1300 NORTH SEVENTEENTH STREET SUITE 1800
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6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41).....\$ 40.00
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Carl I. Brundidge
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Total number of pages including cover sheet, attachments, and document: 2

ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to Seiichi SANO, Toshiyuki AKIYAMA, Atsushi MIYASHITA, and Nobuo TSUKAMOTO,

citizens of Japan by HITACHI DENSHI KABUSHIKI KAISHA, a corporation organized under the laws of Japan,

located at 1 Kanda Izumi-cho, Chiyoda-ku, Tokyo 101, Japan,

receipt of which is hereby acknowledged, we, the said Seiichi SANO, Toshiyuki AKIYAMA, Atsushi MIYASHITA, and Nobuo TSUKAMOTO,

do hereby sell and assign to said HITACHI DENSHI KABUSHIKI KAISHA,

their successors and assigns, all our right, title and interest, in and for the United States of America, its in and to "DATA TRANSMISSION APPARATUS AND RECEIVING APPARATUS USING ORTHOGONAL FREQUENCY DIVISION MULTIPLEX MODULATION 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 DENSHI KABUSHIKI KAISHA,

their Successors, assigns or other legal representatives, to the full end of term for which said Letters Patent its 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 DENSHI KABUSHIKI KAISHA.

Signed on the dates indicated aside our signatures:

INVENTORS (発明者フルネームサイン)	Date Signed (署名日)	Witnesses (立会人サイン)
1) <u>Seiichi Sano</u> (Seiichi SANO)	May 28, 1998	<u>Hiroto Suzuki</u>
2) <u>Toshiyuki Akiyama</u> (Toshiyuki AKIYAMA)	May 28, 1998	<u>Hiroto Suzuki</u>
3) <u>Atsushi Miyashita</u> (Atsushi MIYASHITA)	May 28, 1998	<u>Hiroto Suzuki</u>
4) <u>Nobuo Tsukamoto</u> (Nobuo TSUKAMOTO)	May 28, 1998	<u>Hiroto Suzuki</u>
5) _____ ()	_____	_____
6) _____ ()	_____	_____
7) _____ ()	_____	_____
8) _____ ()	_____	_____

PATENT