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11/21/2013



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

Attorney Docket No. 843.10491G00

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

<p>1. Name of conveying party(ies):</p> <p>Nobuaki KANAZAWA Masao MIZUKAMI Kunihiro ITO</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: 1) Hitachi Communication System Co., Ltd. Street Address: 180, Totsuka-cho, Totsuka-ku Yokohama-shi Kanagawa, JAPAN</p> <p>2) Hitachi, Ltd. 6, Kanda Surugadai 4-chome Chiyoda-ku, Tokyo, JAPAN</p>
<p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>3. Nature of conveyance/Execution Date: 12/06/1994.</p> <p><input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input checked="" type="checkbox"/> Other: <u>Corrective Assignment to correct the name of the assignee previously recorded at Reel 7306, Fr. 834 - The assignors hereby confirm the assignment of the entire interest.</u></p>	<p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>

<p>4. Application number(s) or patent number(s):</p> <p>A. Patent Application No.(s)</p>	<p><input type="checkbox"/> This document is being filed together with a new application.</p> <p>B. Patent Registration No.(s):</p> <p>USP 5495186</p> <p>Additional number(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP</p> <p>Internal Address:</p> <p>1300 17TH STREET N., SUITE 1800</p> <p>City: ARLINGTON State: VA Zip: 22209</p> <p>Phone Number: (703) 312-6600 Facsimile Number: (703) 312-6666 Email Address: email@antonelli.com</p>	<p>6. Total number of applications and patents involved</p> <p>7. Total fee (37 CFR 3.41)..... \$40.00</p> <p><input checked="" type="checkbox"/> Authorized to be charged by credit card <input type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)</p> <p>8. Payment Information:</p> <p>a. Credit Card Last 4 numbers: 2097 Expiration date: 06/2014</p> <p>b. (Any deficiencies) Deposit Account No. 01-2135</p> <p>Authorized User Name: Gregory E. Montone</p>
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DO NOT USE THIS SPACE

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, Reg. No. 28141 /Gregory E. Montone Nov. 19, 2013

Name of Person Signing Signature

11/22/2013 Date 00000038 5495186

Total number of pages including cover sheet, attachments and document: 15
Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

40.00 OP

440-581

AD



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
 N. Kanazawa, et al.
 Serial No.: 08/275,008
 Filed July 13, 1994
 For: DIFFERENTIAL TYPE NOS
 TRANSMISSION CIRCUIT
 Date of Last Office Action:
 August 12, 1994
 Attorney Docket No.:
 HIT 2 806

Examiner:
 Art Unit:
 ATTN: APPLICATION
 PROCESSING DIVISION,
 SPECIAL PROCESSING
 AND CORRESPONDENCE
 BRANCH

Cleveland, Ohio 44114
 December 14, 1994

ASSIGNMENT TRANSMITTAL LETTER

Commissioner of Patents
 and Trademarks
 Attn: Application Processing Division
 Special Processing & Correspondence Branch
 Washington, D.C. 20231

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 ASSIGNMENT BRANCH

Dear Sir:

Please record the attached original document(s) or copy(ies) thereof.

1. Name of Party(ies) conveying an interest:

Nobuaki KANAZAWA
 Masao MIZUKAMI
 Kunihiro ITO

2. Name of Party(ies) receiving an interest:

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

- and -

(2) Hitachi Communication Systems, Inc.
 180, Totsukacho
 Totsuka-ku, Yokohama, JAPAN

160 Description of the interest conveyed:

19 Assignment Change of Name
 Security Agreement Merger
 Other 93742893

INT 1306 PMS 34

- 2 -

4. This document is being filed in connection with U.S. Application Serial No. 08/275,008, filed July 13, 1994, the execution date of which is: December 6, 1994.

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

Thomas E. Kocovsky, Jr.
Reg. No. 28,383
FAY, SHARPE, BEALL, FAGAN
MINNICH & MCKEE
1100 Superior Avenue, Suite 700
Cleveland, Ohio 44114-2518

6. One patent application is involved.

7. Amount of fee enclosed or authorized to be charged:
\$ 40.00

8. Deposit Account Number (attached duplicate copy of this form if paying by Deposit Account): 06-0308.

9. The assignment shows it was signed on:
December 6, 1994.

10. 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.

Total Number of pages including cover sheet (3 pages); and Assignment document (1 page); Total: 4 pages.
3

Respectfully submitted,

FAY, SHARPE, BEALL, FAGAN,
MINNICH & MCKEE

Dec 14, 1994
Date 

Thomas E. Kocovsky, Jr.
Reg. No. 28,383
1100 Superior Avenue
Suite 700
Cleveland, OH 44114-2518
(216) 861-5582

REEL 1306 FRAME 35

PATENT

REEL: 031718 FRAME: 0561

HE98E-02
U.S.A. HIT 2 506
(JOINT INVENTORS)

ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to Nobuaki KANAZAWA, Masao MIZUKAMI and Kunihiro ITO,

citizens of Japan by HITACHI, LTD. and Hitachi Communication Systems, Inc., corporations organized under the laws of Japan,

located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan and 180, Totsukacho, Totsuka-ku, Yokohama, Japan, respectively,

receipt of which is hereby acknowledged, we, the said Nobuaki KANAZAWA, Masao MIZUKAMI and Kunihiro ITO,

do hereby sell and assign to said HITACHI, LTD. and Hitachi Communication Systems, Inc.,

their successors and assigns, all our right, title and interest, in and for the United States of America, in and to "DIFFERENTIAL TYPE MOS TRANSMISSION CIRCUIT"

invented by us and described in the application for United States Letters Patent therefor, executed on December 6, 1994, U.S. Serial No. 08/275,008 filed on July 13, 1994, 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 Hitachi Communication Systems, Inc.,

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, revised 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 Hitachi Communication Systems, Inc.

Signed on the dates indicated under 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>金澤伸朗</u> (Nobuaki KANAZAWA)	December 6, 1994	<u>川島正敏</u>
2) <u>Masao Mizukami</u> (Masao MIZUKAMI)	December 6, 1994	<u>川島正敏</u>
3) <u>Kunihiro Ito</u> (Kunihiro ITO)	December 6, 1994	<u>伊藤 実</u>
4) _____ ()	RECORDED PATENT & TRADEMARK OFFICE	
5) _____ ()		DEC 19 94
6) _____ ()		
7) _____ ()		
8) _____ ()		

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