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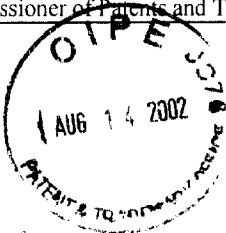
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U.S. DEPARTMENT OF COMMERCE  
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Iichi WAKO  
Hisamatsu NAKANO  
Yusuke YAMAMOTO



081409

2. Name and address of receiving party(ies):

HITACHI KOKUSAI ELECTRIC INC.  
3-14-20 Higashi-Nakano, Nakano-ku, Tokyo, Japan

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: August 1, 2002

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:

A. Patent Application No.(s)  
10/147,302

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

SUGHRUE MION, PLLC  
2100 Pennsylvania Avenue, N.W.  
Suite 800  
Washington, D.C. 20037-3213

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 No. 19-4880.

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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.

*Darryl Mexic*

Darryl Mexic

Reg. No. 23,063

August 14, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks  
Box Assignment  
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08/16/2002 DBYRNE 00000217 10147302

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# ASSIGNMENT

Whereas, I/we **Iichi WAKO and Hisamatsu NAKANO** both of Tokyo, Japan  
**Yusuke YAMAMOTO** of Kanagawa, Japan

hereinafter called assignor(s), have invented certain improvements in

**SEMICIRCULAR RADIAL ANTENNA**

and executed an application for Letters Patent of the United States of America therefor on

**August 1, 2002; and**

Whereas, **HITACHI KOKUSAI ELECTRIC INC.** of 3-14-20 Higashi-Nakano, Nakano-ku,  
Tokyo, Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. § 119, and I/we request the Director – U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my/our attorneys **SUGHRUE MION, PLLC** of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213 to insert here in parentheses (Application number **10/147,302**, filed **May 17, 2002**) the filing date and application number of said application when known.

Date: August 1, 2002 s/ Iichi WAKO

Date: August 1, 2002 s/ Hisamatsu NAKANO

Date: August 1, 2002 s/ Yusuke YAMAMOTO

Date: s/ \_\_\_\_\_

Date: s/ \_\_\_\_\_

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)