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03-24-2005

Form PTO-1595
(Rev. 10/02)
OMB No. 0651-0027 (exp. 6/30/2005)
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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):
Toshiaki Shirosaka
Kiyotaka Tatekawa
Toshio Fujita
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: **DX Antenna Company, Limited**
Internal Address: _____
Street Address: **2-15, Hamasaki-dori**
Hyogo-ku
City: **Kobe-shi** State: _____ Zip: **652-0807**
JAPAN
Additional name(s) & address(es) attached? Yes No

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3. Nature of conveyance:
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Execution Date: **03/04/2005**

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: **03/04/2005**
A. Patent Application No.(s) _____
B. Patent No.(s) _____
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **William H. Murray**
Internal Address: _____
Street Address: **Duane Morris LLP**
One Liberty Place
City: **Philadelphia** State: **PA** Zip: **19103-7396**

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:
04-1679

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9. Signature.
William H. Murray Name of Person Signing
 Signature
March 10, 2005 Date

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Mail documents to be recorded with required cover sheet information to:
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PATENT
REEL: 016382 FRAME: 0931

ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned, Toshiaki Shirotsuka of Kobe, Hyogo-ken, Japan; Kiyotaka Tatekawa of Kobe, Hyogo-ken, Japan; and Toshio Fujita of Kobe, Hyogo-ken, Japan;

Hereby sell, assign and transfer to DX Antenna Company, Limited, a corporation of Japan, having a place of business at 2-15, Hamasaki-dori, Hyogo-ku, Kobe-shi, Hyogo-ken 652-0807, Japan, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled

ANTENNA APPARATUS

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements, and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements;

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all

applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

The undersigned declare further that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this assignment, patent or patent application and any patent issuing thereon.

Date: March 4, 2005

J. Shirosaka

Toshiaki Shirosaka

Date: March 4, 2005

K. Tatekawa

Kiyotaka Tatekawa

Date: March 4, 2005

T. Fujita

Toshio Fujita