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Atty. Docket No.: (DMSL)HA-87 (HAL-ID 202)

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1. Name of conveying party(ies):

Carl SCARPA

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

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: 1/7/02

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

Name: Hitachi, Ltd.

Address:

Street Address: 6, Kanda Surugadai 4-chome

City: Chiyoda-ku State: Tokyo 101 Country: Japan

Additional name(s) & address(es) attached? ___ Yes ☒ No

4. Application number(s) or patent number(s):

10041082

If this document is being filed together with a new application, the execution date of the application is: 1/7/02

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: Michael P. Straub, Esq.
STRAUB & POKOTYLO
Customer No. 26479Internal Address: 1 Bethany Road
Street Address: Suite 83, Building 6

City: Hazlet State: NJ ZIP: 07730

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

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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

Michael P. Straub
Name of Person SigningMichael P. Straub
Signature1/7/02
Date

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PATENT
REEL: 012460 FRAME: 0053

Atty. Doc. No.: (DMSL)HA-87 (HAL-ID 202)

ASSIGNMENT (single inventor)

WHEREAS, I, **Carl Scarpa**, ASSIGNOR

a citizen of the **USA**, residing at **9 Mershon Lane, Plainsboro, NJ 08530**;

am the inventor of the invention in:

A NOVEL OFDM CHANNEL ESTIMATION TECHNIQUE USING THE CONSTANT MODULUS ALGORITHM AND REDUCED CONSTELLATION SLICING

for which I have executed an application for a Patent of the United States herewith;

and WHEREAS, **Hitachi, Ltd.**, a Japanese corporation, having a place of business at **6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo 101, Japan**, ASSIGNEE

is desirous of obtaining the entire right, title and interest in, to and under the invention and the application;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the invention, and the United States application and all divisions, renewals and continuations (including all continuation-in-part applications) thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models and designs which may hereafter be filed for the invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from the United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection,

including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for the invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I have full right to convey the entire interest assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives and assigns, any facts known to me regarding the invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for the invention in all countries.

The undersigned hereby grant(s) the law firm of Straub & Pokotylo the power to insert on this Assignment any further identification, including the application serial number, which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this
7th day of January, 2002.

Carl Scarpa
Carl Scarpa, Assignor

WITNESSED BY:

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