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FORM PTO-1595

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

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

1. Name of conveying party(ies):

Christopher J. Pladdy Serdar Ozen
Mark Fimoff Michael D. Zoltowski
Sreenivasa M. Nerayanuru

Additional names(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Other _____

Execution dates: December 2, 2003

2. Name and address of receiving party(ies)

Name: Zenith Electronics CorporationInternal Address: Attention: Patent DepartmentStreet Address: 2000 Millbrook DriveCity: Lincolnshire State: IL Zip: 60069Additional 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)
10/444,338

B. Patent No.(s)

Additional numbers attached ☐ Yes ☒ No

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

Name: Zenith Electronics CorporationInternal Address: Attn: Patent DepartmentStreet Address: 2000 Millbrook DriveCity: Lincolnshire State: IL ZIP: 600696. Total Number of applications and patents involved: 1

7. Total Fee (8021).....\$40.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

26-0175

(Attach duplicate copy of this page if paying by deposit account)

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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.

Jack Kail

Name of Person Signing

Jack Kail
SignatureDecember 8, 2003

Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment Recordation Services
Commissioner of Patents
Alexandria, VA 22313-1450

CH \$40.00 260175 10444338

700055804

PATENT
REEL: 014181 FRAME: 0431

10/11 P.03

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ASSIGNMENT

In Consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, I:

Christopher J. Pladdy	of Evanston, Illinois;
Mark Fimoff	of Hoffman Estates, Illinois;
Sreenivasa M. Nerayanuru	of Wheeling, Illinois;
Sedar Ozen	of Vernon Hills, Illinois and
Michael D. Zoltowski	of West Lafayette, Indiana

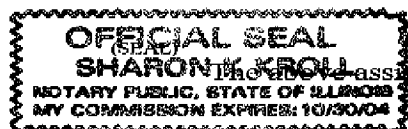
sell and assign to ZENITH ELECTRONICS CORPORATION, a corporation of Delaware whose principal place of business is located at 2000 Millbrook Drive, Lincolnshire, Illinois 60069, United States of America, its successors and assigns, all right, title, and interest in the United States and throughout the world in and to the improvements in "Best Linear Unbiased Channel Estimation For Frequency Selective Multipath Channels With Long Delay Spreads" invented by me, and the application for United States Letters Patent therefore executed concurrently herewith, and all patents which may be granted therefore, and all provisional applications, divisions, substitutions, reissues, continuations and continuations-in-part thereof, and all priority rights under the Patent Cooperation Treaty and the International Convention for the Protection of Industrial Property for every respective member country, and all applications for patents, whether design or utility (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore, on date even herewith, or hereafter filed for said improvements in any foreign countries, and all patents (including all extensions, renewals, and reissues thereof) granted for said improvements or any part thereof in any foreign countries; and authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents on said improvements or resulting therefrom to said Corporation as assignee of the entire interest, and covenant that I have full right so to do, and agree that I will communicate to said Corporation or its representatives any facts known to me respecting said improvements and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and generally do everything possible to aid said Corporation, its successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries, and I authorize any of our principal attorneys of record in said application to insert on this assignment the filing date and serial number of said application, when known.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 2nd day of December, 2003.

<u>Christopher J. Pladdy</u> L.S. C.J.P.	<u>Sedar Ozen</u> L.S. S.O.
<u>Mark Fimoff</u> L.S. M.F.	<u>Michael D. Zoltowski</u> L.S. M.D.Z.
<u>Sreenivasa M. Nerayanuru</u> L.S. S.M.N.	

STATE of Illinois
COUNTY of Cook

On this 2nd day of December, 2003, before me, a Notary Public in and for the State and County aforesaid, personally appeared Christopher J. Pladdy, Mark Fimoff, Sreenivasa M. Nerayanuru, Sedar Ozen and Michael D. Zoltowski to me personally known as the individuals who executed the foregoing assignment, and who acknowledged to me that they executed the same of their own free will and for the purposes therein set forth.



Sharon K. Kroll

The above assignment covers application Serial No. 10/444,338, filed May 23, 2003.

Jack Kail
Jack Kail, Registration No. 27,566

PATENT

RECORDED: 12/09/2003

REEL: 014181 FRAME: 0432