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To the Honorable Commissioner of

101946224

attached original documents or copy thereof.

1. Name of conveying party(ies):

Yimin Zhang

Bogdan Kosanovic

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

2. Name and address of receiving party(ies)

Name: Telogy Networks, Inc.

Internal Address: _____

Street Address: 20450 Century BoulevardCity: Germantown State: MD ZIP: 20874Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____Execution Date: December 31, 2001

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: N/A

A. Patent Application No.(s)

10/029,669

B. Patent No.(s)

N/AAdditional numbers attached? ☐ Yes ☒ No

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

Name: Warren FranzInternal Address: Texas Instruments, Inc.Street Address: P.O. Box 655474MS 3999City: Dallas State: TX ZIP: 752656. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

20-0668

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

01/14/2002 DBYRNE 00000441 200668 10029669

01 FC:581 40.00 CH

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.*Paul Grandinetti

Name of Person Signing

Paul Grandinetti

Signature

7 JAN. 02

Date

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

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

Commissioner of Patents & Trademarks, Box Assignments

Washington, D.C. 20231

PATENT

REEL: 012448 FRAME: 0570

ASSIGNMENT

AS THE BELOW-NAMED INVENTORS, we declare that:

In consideration of the sum of TEN DOLLARS (\$10.00) or the equivalent thereof, and other good and valuable consideration, receipt of which from the Assignee is acknowledged, we do sell, assign, and forever grant and convey unto:

ASSIGNEE: **Telogy Networks, Inc.**
20450 Century Boulevard
Germantown, Maryland 20874

our Assignee, and to the successors and assigns of our Assignee, all our rights, title, and interest in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

TITLE: **DYNAMICALLY ESTIMATING ECHO RETURN LOSS IN A COMMUNICATION LINK**

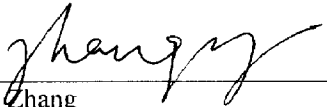
invented by us and described in an application for a United States patent, the specification of which was filed on December 31, 2001, and received Serial Number 1 002 966 9 and was executed on even date herewith, and in and to all United States patents which may be granted thereon and therefor, and in and to all divisions, continuations, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when granted, to be held and enjoyed by our Assignee, its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment, sale, and conveyance had not been made;

And we covenant and agree to sign and execute any further documents or instruments which may from time to time be either necessary, lawful, proper, or requested by the Assignee in the prosecution of the above-named application or in the preparation and prosecution of any division, continuation, continuation-in-part, reissue, re-examination, amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title in said Assignee;

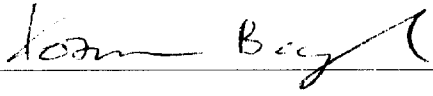
And we do authorize and request the Commissioner of Patent and Trademarks to issue said Patent or Patents to the Assignee, and we authorize, appoint and request our attorney of record to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, we have set our hand and seal on the date written beside our name:

12/27/2001
Date


Yimin Chang
12420 Great Park Circle, #301
Germantown, Maryland 20876

12/31/2001
Date


Bogdan Kosanovic
5411 Glenwood Road
Bethesda, Maryland 20817