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OMB No. 0651-0027 (exp. 5/31/2002)

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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

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

1. Name of conveying party(ies):

11-10-03

Liu, Dongtai

2. Name and address of receiving party(ies)

Name: UTStarcom, Inc.

Internal Address: _____

03917 U.S. PTO
10/704938Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other _____

Street Address: 1275 Harbor Bay Parkway

City: Alameda State: CA Zip: 94502

Execution Date: 10/31/2003

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: 11/01/03

A. Patent Application No.(s)

10704938

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Felix L. Fischer

Internal Address: _____

Street Address: 1607 Mission Drive, Suite 204

City: Solvang State: CA Zip: 93463

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: _____

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

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.

Felix L. Fischer

Name of Person Signing

Signature

11/10/2003

Date

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

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

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

11/14/2003 SSITHIB1 00000075 10704938

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PATENT
REEL: 014695 FRAME: 0766

ASSIGNMENT

WHEREAS, Dongtai Liu, a resident of Fremont, California, United States of America, hereinafter referred to as the "Assignor" has invented certain new and useful improvements as described and set forth in an application for Letters Patent of the United States entitled METHOD FOR FREQUENCY AND LOOP LENGTH GROUPING FOR CROSS-TALK REDUCTION IN A PLURALITY OF DSL CHANNELS with a Declaration attached thereto that was executed by the Assignor on even date herewith and a provisional application of the same title filed on 11/12/2002 and having serial no. 60/425,791;

WHEREAS, UTStarcom, Inc. a corporation of the State of Delaware, having a place of business at 1275 Harbor Bay Parkway, Alameda, CA 94502, hereinafter referred to as "Assignee", desires to acquire the entire right, title and interest in and to said application, said inventions, said improvements, and any and all Letters Patent which may be granted thereon in the United States or any foreign country;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged by Assignor,

1. Assignor hereby sells, assigns, transfers and conveys to Assignee the entire worldwide right, title and interest in and to said provisional application, said application, said invention and said improvements, and in and to any and all Letters Patent on said invention and improvements that may be granted by the United States or any foreign country, including any divisions, substitutions, continuations in whole or in part, conversions, reissues, additions or extensions thereof, said interest to be held and enjoyed by Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made.

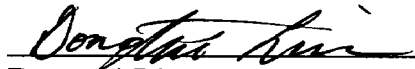
2. Assignor hereby covenants, warrants and represents that he has not heretofore granted any license, right or privilege with respect to said applications, invention or improvements or in any other way encumbered the same, and that he has the full right to make this Assignment.

3. Assignor further agrees that at the request and expense of Assignee, but without charge to said Assignee, he will promptly execute all papers necessary or desirable to perfect ownership of said invention, improvements, applications or said Letters Patent, in said Assignee, and will execute all oaths and other papers, within the truth, that are necessary or desirable for prosecuting said application, for use in interference proceedings involving said invention or improvements, for refilling said applications, for filing of said divisional, substitution, continuation or continuation-in-part applications covering said invention or improvements which are deemed necessary or desirable by Assignee, for reissuance or reexamination of said Letters Patent, or for the

filing in foreign countries of applications for Letters Patent covering said invention or improvements.

4. The terms, covenants and provisions of this Assignment shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, his heirs, legal representatives and assigns.

IN TESTIMONY WHEREOF, I have executed and delivered to Assignee this instrument on the date shown.

 Date: 10/31/03
Dongtai Liu