PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE: | | NEW ASSIGNMENT | | | | | |
|---|--------------------------|----------------|----------------------|----------------|--|--|--|
| NATURE OF CONVEYANCE: | | | ASSIGNMENT | | | | |
| CONVEYING PARTY DATA | | | | | | | |
| N | | | lame | Execution Date | | | |
| Frontier Technology Development Limited | | | | 03/20/2007 | | | |
| RECEIVING PARTY DATA | | | | | | | |
| Name: | Zhone Technologies, Inc. | | | | | | |
| Street Address: | 7001 Oakport Street | | | | | | |
| City: | Oakland | | | | | | |
| State/Country: | | | | | | | |
| Postal Code: | 94621 | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | |
| Property Type | | | Number | | | | |
| Patent Number: 6744 | | 67448 | 387 | | | | |
| CORRESPONDENCE DATA | | | | | | | |
| Fax Number: (770)951-0933 | | | | | | | |
| Fax Number:(770)951-0933Correspondence will be sent via US Mail when the fax attempt is unsuccessful.Phone:770-933-9500 | | | | | | | |
| Phone: 770-933-9500 | | | | | | | |
| Email: julie.campbell@tkhr.com | | | | | | | |
| Email: Jule.campbeli@tkm.com Correspondent Name: Scott A. Horstemeyer Address Line 1: 100 Galleria Parkway | | | | | | | |
| Address Line 2: Suite 1750 | | | | | | | |
| Address Line 4: | | | | | | | |
| ATTORNEY DOCKET NUMBER: | | | 052601-9030 | | | | |
| NAME OF SUBMITTER: | | | Scott A. Horstemeyer | | | | |
| Total Attachments: 2 source=00499572#page1.tif source=00499572#page2.tif | | | | | | | |

Docket No. 052601-1350 (Z-01) Page 1 of 2 (Patent Assignment)

ASSIGNMENT OF PATENT

WHEREAS, FRONTIER TECHNOLOGY DEVELOPMENT LIMITED, having a place of business at 67-71 Chatham Road, Rm 1102, Oriental Centre, Tsimshatsui Kowloon, Hong Kong, hereinafter referred to as ASSIGNOR, may own or owns all right, title, and interest in **U. S. Patent No. 6,744,887, issued June 1, 2004**, entitled:

ACOUSTIC ECHO PROCESSING SYSTEM

WHEREAS, ZHONE TECHNOLOGIES, INC., having a place of business at 7001 Oakport Street, Oakland, CA 94621, hereinafter referred to as ASSIGNEE, is desirous of acquiring. ASSIGNOR'S interest, if any, in and to said U.S. patent and any provisional, continuation, continuation-in-part, divisional, reissued, re-examined, and foreign applications and patents relating to said U.S. patent.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the ASSIGNOR'S entire right, title and interest, for the United States of America, in and to said U.S. patent and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for any invention(s) described in said patent, including but not limited to, all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the ASSIGNOR'S entire right, title and interest in and to any and all foreign patents and applications for any invention described in said U.S. patent, in any and all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them; and (c) the ASSIGNOR'S right to seek remedies for any and all infringements of any of the foregoing patents and to collect and retain all damages and profits and enjoy any and all remedies granted for infringements.

ASSIGNOR authorizes ASSIGNEE to make any and all application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for any said invention, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for protection for any invention described in said U.S. patent or other form of protection for any said invention and to claim the aforesaid benefit of the right of priority.

> PATENT REEL: 019035 FRAME: 0723

Docket No. 052601-1350 (Z-01) Page 2 of 2 (Patent Assignment)

٠.,

FRONTIER TECHNOLOGY DEVELOPMENT LIMITED

| By: | JON WEI | |
|--------|-------------------|--|
| Name: | Jon Mar | |
| Title: | DIRECTOR | |
| Date: | Munecut 20, 2007. | |

ZHONE TECHNOLOGIES, INC.

By:

Name: Kirk Misaka

*

۲

Title: Chief Financial Office

Date: 320/07

RECORDED: 03/21/2007