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12.4.00

FORM PTO-1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)
Docket No. 042159.0103

RECOR



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<p>1. Name of conveying party(ies):</p> <p>(1) Victor DEMJANENKO (2) Frederic J. HIRZEL</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p>Vocal Technologies, Ltd. 200 John James Audubon Parkway Buffalo, NY 14228</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other:

Execution Date: (1) 10/04/00; (2) 10/05/00.

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)	B. Patent No.(s)
S/N 09/033,821 Filed: 3 March 1998	

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Ronald Coslick Address: Foley & Lardner 2029 Century Park East Suite 3500 Los Angeles, CA 90067-3021</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$40.00 <input checked="" type="checkbox"/> Enclosed. <input type="checkbox"/> Authorized to be charged to deposit account.</p> <p>8. Please charge any additional fees or credit any overpayments to our Deposit account number: 50-0872</p>
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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.

Ronald Coslick
Name of Person Signing

Ronald Coslick
Signature

November 29, 2000
Date

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

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12/22/2000 6TOM11 00000195 09033821
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PATENT
REEL: 011355 FRAME: 0030

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

Vocal Technologies, Ltd.
200 John James Audubon Parkway
Buffalo, NY 14228

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to this invention relating to

DETECTION AND ADAPTATION TO DIGITAL NETWORK IMPAIRMENTS BY PCM MODEMS

as set forth in United States Patent Application

check one executed concurrently herewith
 executed on _____
 Serial No. 09/033,821 Filed 3 March 1998

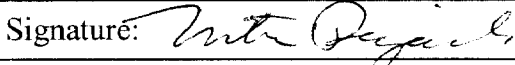
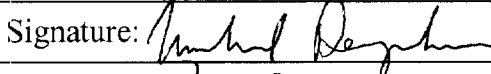

And parent applications thereof, in and to said United States Patent Application including any and all divisions, continuations or continuations-in-part thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

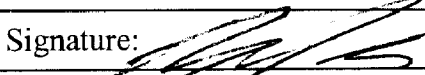
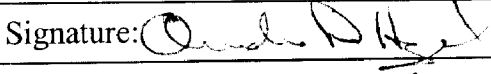
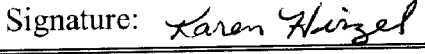
Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby authorizes the firm of **FOLEY & LARDNER** to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAMES AND SIGNATURES OF INVENTOR		
Name: Victor DEMJANENKO	Signature: 	Date: 10/4/00
NAMES AND SIGNATURES OF WITNESSES		
Name: Michael Demjanenko	Signature: 	Date: 10/4/00
Name: David Jamieson	Signature: 	Date: 10/4/00

NAMES AND SIGNATURES OF INVENTOR		
Name: Frederic J. HIRZEL	Signature: 	Date: 10/5/00
NAMES AND SIGNATURES OF WITNESSES		
Name: ANDREW D HIRZEL	Signature: 	Date: 10/5/00
Name: KAREN HIRZEL	Signature: 	Date: 10/5/00

Note: *Prima facie* evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.