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

APR 30 1998

the attached original documents or copy thereof.

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To the Honorable Commissioner of

1. Name of conveying party(ies):  
**Victor Demjanenko and  
Frederic J. Hirzel**

2. Name and address of receiving party(ies)

Name: **VoCAL Technologies Ltd.**

Address: **200 John James Audubon Pkwy  
Suite 105**

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

City: **Buffalo** State/Prov.: **NY**  
Country: **USA** ZIP: **14228**

Execution Date: **March 5 & 23, 1998**

Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

Patent Application No.	Filing date	B. Patent No.(s)
<b>09/033,821</b>	<b>March 3, 1998</b>	

Additional numbers attached?  Yes  No

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

Name: **Robert P. Simpson, Esq.**  
Registration No. **33,034**  
Address: **Marine Midland Bank Building  
5554 Main Street, Suite 200**

City: **Williamsville** State/Prov.: **NY**  
Country: **USA** ZIP: **14221-5406**

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)

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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.*

**Robert P. Simpson**  
Name of Person Signing

Signature

April 29 1998

**3** Date

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

REEL: 9167 FRAME: 091

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05/10/1998 11:00:11  
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ASSIGNMENT OF INVENTION

WHEREAS, We, Victor Demjanenko of 4420 Beach Ridge Road, Pendleton, NY 14094 and Frederic J. Hirzel of 450 North Mathilda, Apt. C-302, Sunnyvale, CA 94086, respectively, have invented certain new and useful improvements in:

**DETECTION AND ADAPTATION TO DIGITAL NETWORK IMPAIRMENTS BY PCM  
MODEMS**

(hereinafter referred to as "Invention") for which we filed an application for Letters Patent on March 3, 1998 claiming the benefit of the priority date of U.S. Provisional Patent Application No. 60/038,570 filed on March 3, 1997 in the United States;

AND WHEREAS, We, Victor Demjanenko and Frederic J. Hirzel, desire to assign a 100% undivided interest in said Invention, said application disclosing the Invention and any Letters Patent which may be granted therefor to VoCAL Technologies Ltd., 200 John James Audubon Pkwy, Suite 105, Buffalo, NY 14228 (hereinafter referred to as VoCAL Technologies Ltd.);

NOW THIS INDENTURE WITNESSETH, that for the sum of One Dollar, and other valuable consideration to us in hand paid, the receipt whereof is hereby acknowledged;

We, Victor Demjanenko and Frederic J. Hirzel, hereby assign, sell and transfer a 100% undivided interest in said invention, said application, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries

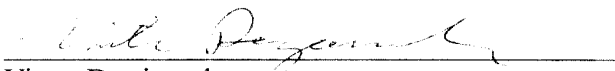
foreign thereto, unto VoCAL Technologies Ltd.

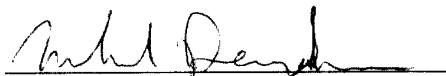
And we, Victor Demjanenko and Frederic J. Hirzel, hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States Letters Patent to said VoCAL Technologies Ltd., as assignee of the whole right, title and interest thereto;

And we further agree to execute all necessary and lawful future documents, including assignments in favor of VoCAL Technologies Ltd., or their designees as VoCAL Technologies Ltd., or their Assignees may from time-to-time present to us in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And we further agree to sign and properly execute such necessary and lawful papers for application for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for our aforesaid invention, as the Assignees thereof shall hereafter require and prepare at their own expense.

WITNESS, my hand and seal this 5th day of March, 1998.

  
Victor Demjanenko

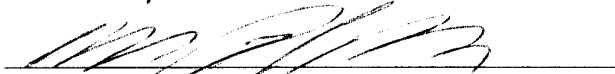


WITNESS:



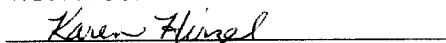
WITNESS:

WITNESS, my hand and seal this 23 day of March, <sup>1948</sup>1996.

  
Frederic J. Hirzel



WITNESS:



WITNESS: