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

1. Name of conveying party(ies):

Patrick Vandenameele-Lepla

11-30-01

2. Name and address of receiving party(ies)

Name: Resonext Communications, Inc.Street Address: 1754 Technology Drive, Suite 200City: San Jose State: CA ZIP: 95110Additional name(s) of conveying parties attached? ☐ Yes ☒ No.

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other: \_\_\_\_\_Additional names and addresses attached? ☐ Yes ☒ NoExecution Date: October 15, 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: \_\_\_\_\_

A. Patent Application No(s): 09/966,419

B. Patent No(s): \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

C10E

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

Name: Babak S. Sani  
TOWNSEND AND TOWNSEND AND CREW LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, California 94111-3834  
(415) 576-0200

6. Total number of applications and patents involved 17. Total fee (37 CFR 3.41): -----\$40.00☐ Enclosed☒ Authorized to be charged to deposit account8. Deposit account number: 20-1430

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document.

Babak S. Sani

Name of Person Signing  
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Signature

11-19-01  
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Total number of pages including cover sheet, attachments and document 3

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PATENT  
REEL: 012332 FRAME: 0570

# ASSIGNMENT OF PATENT APPLICATION

SOLE

WHEREAS, Patrick Vandenameele, of Baanakkerweg 3, 3060 Bertem, Belgium; hereinafter referred to as "Assignor," is the inventor of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: METHOD AND APPARATUS FOR CHANNEL ESTIMATION

Date(s) of execution of Declaration: 15 / 10 / 2001

Filing Date: September 27, 2001

Application No.: 09/966,419 ; and

WHEREAS, Resonext Communications, Inc., a corporation of the state of Delaware, located at 1754 Technology Drive, Suite 200, San Jose, CA, 95110, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;


For good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that Assignor will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignor hereby authorizes and requests Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8<sup>th</sup> Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignor has signed his/her name on the date indicated.

Dated: 15/10/2001

  
Patrick Vandenameele-Lepla

)  
) ss.  
)

On \_\_\_\_\_, before me, \_\_\_\_\_,  
personally appeared Patrick Vandenameele-Lepla, personally known to me (or proved to me  
on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and  
acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on  
the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

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