



102473393

Attorney Docket No. 915-010.003

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

1. Name of conveying party(ies): **Igor Danilo Diego CURCIO, Miikka LUNDAN, Emre Baris AKSU, Ru-Shang WANG, Viktor VARSA and David LEON**

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: **April 1 and 8 and June 4, 2003**

2. Name and address of receiving party(ies):

**NOKIA CORPORATION****Keilalahdentie 4****FIN-02150 Espoo****FINLAND**

Additional name(s) and 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: \_\_\_\_\_

A. Patent Application No.(s)

**10/369,098**

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

**Alfred A. Fressola****Ware, Fressola, Van Der Sluys & Adolphson LLP****Bradford Green, Building Five****755 Main Street****P.O. Box 224****Monroe, CT 06468-0224**6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) \$ **40.00** ☒ Enclosed☐ Authorized to be charged to credit card as shown on attached form PTO-20388. Deposit account number: **23-0442**

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

Statement and signature:

*To the best of my knowledge and belief, the foregoing information is true and correct and any attachment copy is a true copy of the original document.***Alfred A. Fressola, Reg. No. 27,550**

Name of Person Signing

Signature

**June 9, 2003**

Date

Total number of pages including cover sheet, attachments, and document: 8

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

Commissioner of Patents &amp; Trademarks, Box Assignments

Washington, D.C. 20231

**PATENT****REEL: 014157 FRAME: 0846**

**ASSIGNMENT AND AGREEMENT**

**FOR VALUE RECEIVED, We, IGOR DANILO DIEGO CURCIO, MIIKKA LUNDAN, EMRE BARIS AKSU, RU-SHANG WANG, VIKTOR VARSA and DAVID LEON**, citizens of Italy, Finland, Turkey, Taiwan, Hungary, and France, respectively, and residing at Hatanpään valtatie 12 C 57, 33100 Tampere, FINLAND; Männikönkatu 4 A 7, 33820 Tampere, FINLAND; Atomikatu 5 A 12, 33721 Tampere, FINLAND; 272 Enclaves Ct., Coppell, Texas, 75019, USA; 6239 Love Drive, #632, Irving, Texas, 75039, USA; and 900 Meadow Creek Drive #3061, Irving, Texas, 75038, USA , respectively, hereby sell, assign and transfer to **NOKIA CORPORATION**, a corporation duly organized and existing under the laws of Finland, and having a principal place of business at Keilalahdentie 4, FIN-02150 Espoo, Finland, as assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to improvements in a **BANDWIDTH ADAPTATION**, which is described in an application for Letters Patent of the United States, Serial No. 10/369,098 filed February 18, 2003; and all the rights and privileges under any and all Letters Patent that may be granted therefor.

We request that any and all patents for said inventions be issued to said assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

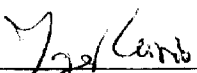
We authorize and empower the said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by: (a) the International Convention for the Protection of Industrial property, as amended, or by convention which may henceforth be substituted for it; and (b) the Patent Cooperation Treaty, as amended, or by any treaty

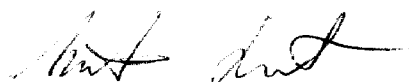
which may henceforth be substituted for it; and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefit of the right of priority provided by: (a) the International Convention for the protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it; and (b) the Patent Cooperation Treaty, as amended, or by any treaty which may henceforth be substituted for it.

We covenant with said assignee, its successors and assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at TAMPERE this 08 day of APRIL, in the year 2003.

  
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Igor Danilo Diego Curcio

  
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Miikka Lundan

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Emre Baris Aksu

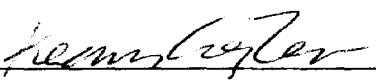
\_\_\_\_\_  
Ru-Shang Wang

\_\_\_\_\_  
Viktor Varsa

\_\_\_\_\_  
David Leon

Signed in our presence and acknowledged to be an assignment of the application  
(invention) herein above referred to.

Witness  Date 08 Apr 2003  
HACER HÖLME

Witness  Date 08 Apr 2003  
KEREM GÖLÇAR

which may henceforth be substituted for it; and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefit of the right of priority provided by: (a) the International Convention for the protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it; and (b) the Patent Cooperation Treaty, as amended, or by any treaty which may henceforth be substituted for it.

We covenant with said assignee, its successors and assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at Tampere this 4<sup>th</sup> day of June, in the year 2003.

\_\_\_\_\_  
Igor Danilo Diego Curcio

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Miikka Lundan

  
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Emre Baris Aksu

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Ru-Shang Wang

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Viktor Varsa

\_\_\_\_\_  
David Leon

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(invention) herein above referred to.

Witness Juni Verten Date 4.6.2003

Witness Miguel Date 4.6.2003

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We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefit of the right of priority provided by: (a) the International Convention for the protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it; and (b) the Patent Cooperation Treaty, as amended, or by any treaty which may henceforth be substituted for it.

We covenant with said assignee, its successors and assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at IRVING, TX, USA this 15<sup>TH</sup> day of APRIL, in the year 2003.

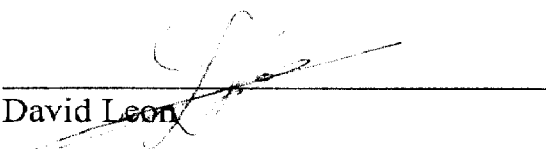
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Igor Danilo Diego Curcio

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Miikka Lundan

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Emre Baris Aksu


  
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Ru-Shang Wang

  
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Viktor Varsa

  
\_\_\_\_\_  
David Leon

Signed in our presence and acknowledged to be an assignment of the application  
(invention) herein above referred to.

Witness  Date 4/1/2003

Witness  Date 4/1/2003