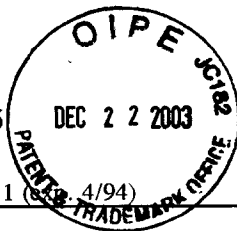


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(Rev. 6-93)

OMB No. 0651-0011 (8/94)



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U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No. 944-003.184

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

1. Name of conveying party(ies):

Karri Ranta-aho, Antti Toskala, Tero Henttonen

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

☐ Yes ☒ No

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

NOKIA CORPORATION

Keilalahdentie 4

FIN-02150 ESPOO

FINLAND

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: Sept. 10 and 11, 2003

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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)

10/640,414

Additional numbers attached? ☐ Yes ☒ No

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

James A. Retter

Ware Fressola, Van Der Sluys & Adolphson LLP

Bradford Green, Building 5

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 deposit account

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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.

James A. Retter

Name of Person Signing

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Dec. 18, 2003

Date

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

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Alexandria, VA 22313-1450

PATENT

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ASSIGNMENT AND AGREEMENT

FOR VALUE RECEIVED, We, Karri Ranta-aho, Antti Toskala, and Tero Henttonen, citizens of Finland, respectively, and residing at Hakkukuja 1 C 40, FIN-02650, Espoo, Finland, Mankkaanrinne 2 C, FIN-02180, Espoo, Finland, and Neulaspolku 1 D 39, FIN-02110, Espoo, Finland, 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 **METHOD AND APPARATUS FOR IMPLICIT TFC REDUCTION AND L1 ERROR HANDLING**, which is described in an application for Letters Patent of the United States, Serial No. **10/640,414** filed **August 12, 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 Espoo this eleventh day of September, in the year 2003.


Karri Ranta-aho

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

Witness Masatoshi Adamoto Date 11. 9. 2003

Witness Samuel J. [Signature] Date 11. 9. 2003

Docket No. 944-003.184
Serial No. 10/640,414

Signed at ESPOO this 17th day of
September, in the year 2003.

Antti Toskala
Antti Toskala

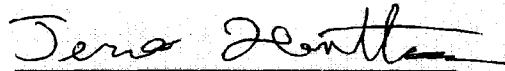
Signed in our presence and acknowledged to be an assignment of the application
(invention) herein above referred to.

Witness Matti Oksanen Date 11. 9. 2003

Witness [Signature] Date 11. 9. 2003

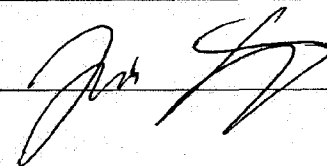
Docket No. 944-003.184
Serial No. 10/640,414

Signed at HELSINKI this TENTH day of
SEPTEMBER, in the year 2003.


Tero Henttonen

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

Witness Enni Rämö-Lanter Date 10.09.2003

Witness  Date 10.09.2003