

05-23-2003



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1. Name of conveying party(ies): S-15-03

Markku Pukkila, Gian-Paolo Mattellini,

Pekka A. Ranta

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
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Execution Date: May 9, 2003

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Yes No

4. Application number(s) or patent number(s):

10439068

If this document is being filed together with a new application, the execution date of the application is: May 15, 2003

A. Patent Application No.(s)

B. Patent No.(s)

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
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6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

Enclosed

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8. Deposit account number:

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May 15, 2003
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PATENT

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ASSIGNMENT AND AGREEMENT

FOR VALUE RECEIVED, We, MARKKU PUKKILA, GIAN-PAOLO MATTELLINI and PEKKA A. RANTA, citizens of Finland, Italy, and Finland, respectively, and residing at Itätaulenkujja 3 A 1, FIN-02100, Espoo, Finland, Itämerenkatu 18 B 27, FIN-00180 Helsinki, Finland, and Albertinkatu 34 B 8, FIN-03100 Nummela, 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 DETERMINING COMPONENTS OF A CHANNEL IMPULSE RESPONSE FOR USE IN A SAIC EQUALIZER, executed on even date herewith; 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 Helsinki this 9th day of May, in the year 2003.


Markku Pukkila

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

Witness Joonas Krögerus Date 9.5.2003
Witness Vuokko Vuorinen Date 9.5.2003

Signed at Helsinki this 9th day of May in the year 2003.

Gian-Paolo Mattellini
Gian-Paolo Mattellini

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

Witness Joonas Moqemus Date 9.5.2003
Joonas Kröger
Witness Aleksi Tuori Date 9.5.2003
Vuokko Vuorinen

Signed at Helsinki this 9th day of May in the year 2003

Pekka A. Ranta
Pekka A. Ranta

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

Witness Joonas Krogerus Date 9.5.2003
Joonas Krogerus

Witness Vuokko Vuorinen Date 9.5.2003
Vuokko Vuorinen