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04-25-2000

Altera Docket No. 781.315USW1

Form PTO 1595

U.S. Department of Commerce
Patent and Trademark Office



101332843

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

1. Name of conveying party(ies) Matti KIISKI Ilkka KESKITALO Sakari VIKAMAA	2. Name and address of receiving party(ies): Nokia Networks Oy Keilalahdentie 4 FIN-02150 Espoo Finland
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Additional names(s) of conveying party(ies) ☐ Yes ☒ No

Additional name(s) & addresses attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: 2 November, 8 November and 2 November 1999

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: 2 November, 8 November and 2 November 1999

A. Patent Application Number(s)

Patent Number(s)

09/439624

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed: Name Michael B. Lasky Address: Altera Law Group 10749 Bren Road East, Opus 2 Minneapolis, Minnesota 55343-9056	6. Total number of applications and patents involved: 1 7. Total fee (37 C.F.R. §3.41) \$40 <input checked="" type="checkbox"/> Enclosed – Any excess or insufficiency should be credited or debited to deposit account <input type="checkbox"/> Authorized to charged to deposit account 8. Deposit Account number: 50-1038
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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.

Michael B. Lasky
Name of Person Signing

12 November 1999
Date

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Total number of pages including cover sheet, attachments, and document: 2

PATENT ASSIGNMENT TO CORPORATION WORLDWIDE

WHEREAS,

1. **Matti KIISKI** residing at Mustalinnuntie 21, FIN-90460 Oulunsalo, Finland
 2. **Iikka KESKITALO** residing at Varsankuja 3, FIN-90240 Oulu, Finland
 3. **Sakari VIKAMAA** residing at Urpiaisentie 22, FIN-90540 Oulu, Finland
- All citizens of Finland,

hereafter referred to as "THE UNDERSIGNED", have made an invention entitled **Method of determining transmission direction, and radio system**

AND, WHEREAS, **NOKIA NETWORKS OY**, hereafter referred to as ASSIGNEE, a Corporation organized under the laws of Finland and whose place of business and business address is Keilalahdentie 4, FIN-02150 Espoo, Finland, is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFOR, in consideration of the sum of One Dollar, the receipt whereof is acknowledged, and other good and valuable consideration, THE UNDERSIGNED hereby sell, assign and transfer unto ASSIGNEE the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to all divisionals, continuations, continuations in part, reissues, reexaminations or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extension of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said invention including an assignment of all rights under the provision of international conventions and all Letters Patent of foreign countries which may be granted therefrom; the UNDERSIGNED hereby authorize the Commissioner of Patents to issue any and all United States Letters Patent for the aforesaid invention to ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED, hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to THE UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles and benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said Assignee its successors and assignees, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Matti Kiiski

Date

Iikka Keskitalo

Date

Sakari Vikamaa

Date

No Legalization Required