

08-07-2002

FORM PTO-1595  
(REV 6-93)U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

MRD 8.5.02

102180749

ATTORNEY DOCKET NO. NC17603

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

1. Name of conveying party(ies):  
Balaji Raghothaman

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

☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: May 21, 2002

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

Name: Nokia Corporation

Internal Address: Keilalahdentie 4  
02150 Espoo  
Finland

Post Office Address: Same as above

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

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

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

A. Patent Application No. 10/146,159

B. Patent No.(s)

Filed: May 15, 2002

Additional numbers attached?

☐ Yes ☒ No

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

Name: Docket Clerk

Internal Address: P. O. Box 802432  
Dallas, Texas 75380

Post Office Address: Same as above

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): 40.00

☒ Enclosed.☒ Any deficiencies or overpayments are authorized to be charged to  
or credited to deposit account

8. Deposit account number: 50-0208

DO NOT USE THIS SPACE

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

Signature

Date

30 July 02

Total number of pages including cover sheet, attachments, and document: 3

OMB No. 0651-0011

08/07/2002 TDIAZ1 00000023 10146159

01 FC:581

40.00 DP

PATENT  
REEL: 013147 FRAME: 0411

ASSIGNMENT

WHEREAS, I, Balaji Raghothaman, a citizen of India, and resident of Allen, Collin County, Texas, have invented certain new and useful improvements in "APPARATUS, AND ASSOCIATED METHOD, FOR FACILITATING ANTENNA WEIGHT SELECTION UTILIZING DETERMINISTIC PERTURBATION GRADIENT APPROXIMATION" disclosed in an application for United States Letters Patent (Application No. 10/146,159, filed May 15, 2002);

WHEREAS, NOKIA CORPORATION, a corporation organized under the laws of Finland, having a place of business at Keilalahdentie 4, 02150 Espoo, Finland, (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to the said ASSIGNEE of my entire right, title and interest.

I also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I hereby further agree that I will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

IN WITNESS WHEREOF, we have hereunto set our hands and seal this 21<sup>st</sup> day of May 2002.

Inventor:

B. Raghathan  
Balaji Raghathan

5/21/2002  
Date

Witnesses:

Dorothy Sparkman  
(Signature of witness)

\_\_\_\_\_  
(Signature of witness)

Beverly Sparkman  
(Printed name)

\_\_\_\_\_  
(Printed name)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Address)