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FORM PTO-1619A
Expires 06/30/99
OMB 0651-0027U.S. Department of Commerce
Patent and Trademark Office
PATENT

101753668

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

U.S. Government

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- ☐ Departmental File ☐ Secret File

Conveying Party(ies)☐ Mark if additional names of conveying parties attached

Name (line 1) Anand KANNAN

 Execution Date
 Month Day Year
 5 30 2001
Name (line 2) **Second Party**

Name (line 1) Tamer KADOUS

 Execution Date
 Month Day Year
 5 30 2001
Name (line 2) **Receiving Party**☐ Mark if additional names of receiving parties attached

Name (line 1) NOKIA, INC.

Name (line 2)

Address (line 1) 6000 Connection Drive

Address (line 2)

Address (line 3) Irving

Texas, USA

75039

City

State/Country

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Address (line 1) Address (line 2) Address (line 3) Address (line 4)

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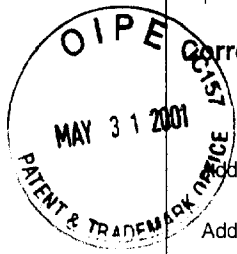
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PATENT
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 OIPE
 MAY 31 2001
 PATENT & TRADEMARK OFFICE



Correspondent Name and Address

Area Code and Telephone Number

(202) 508-9100

Name **Banner & Witcoff, LTD**

Address (line 1) **1001 G Street, N.W.**

Address (line 2) **11th. Floor**

Address (line 3) **Washington, D.C. 20001-4597**

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document including any attachments

6

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached.

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

09/745,301

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number as not been assigned.

PCT

PCT

PCT

PCT

PCT

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Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$ **40.00**

Method of Payment:

Enclosed ☐

Deposit Account ☒

Deposit Account

Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

19-0733

Authorization to charge additional fees:

Yes ☒

No ☐

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. Charges to deposit account are authorized, as indicated herein.

Douglas W. Robinson, Reg. No. 32,751

Name of Person Signing

Signature

May 31, 2001

Date

Attorney Docket No. 05245.00001

ASSIGNMENT

WHEREAS, we, Anand KANNAN, residing at 2700 Waterview Parkway, #4638, Richardson, Texas 75080 and Tamer KADOUS, residing at 6773 Schoeder Rd., #7, Madison, Wisconsin 53711 (ASSIGNORS), are the inventors of certain inventions and improvements described in a U.S. patent application identified by Attorney Docket No. 05245.00001 and having the title

**METHOD AND APPARATUS FOR ERROR REDUCTION IN AN ORTHOGONAL
MODULATION SYSTEM**

which application was

executed on _____ [Date or dates] or

filed on December 22, 2000 and assigned application serial number 09/745,301;

and WHEREAS

NOKIA, Inc.
6000 Connection Drive
Irving, Texas 75039
A Texas Corporation.

ASSIGNEE, desires to acquire the entire right, title and interest in and to the said application, inventions and improvements and any patents that may be granted on or as a result thereof in the United States of America (U.S.) and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged,

We hereby assign, to the above named ASSIGNEE, its successors, assigns and legal representatives (NOMINEES) the entire right, title and interest in and to said application, inventions and improvements throughout the world and to any and all patents, petty patents and utility model patents which may be granted therefor, and all continuations, continuations-in-part, divisions, reissues, extensions, renewals, and any non-provisional based on a provisional thereof (LETTERS PATENT).

And we covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement or do anything in conflict herewith;

And we further covenant and agree that we will without undue delay execute without further consideration all such papers as may be necessary to perfect the title to said application, inventions and improvements, and LETTERS PATENT in the ASSIGNEE or its NOMINEES, and we agree to communicate to said ASSIGNEE or its NOMINEES all known facts respecting said application, inventions, improvements, and LETTERS PATENT, to testify in any legal proceedings, to sign all lawful papers, and generally to do all things necessary to aid ASSIGNEE or its NOMINEES to obtain and enforce for their own benefit patent protection for said application, inventions and improvements in any and all countries, all at the expense, however, of the ASSIGNEE or its NOMINEES;

Joint Assignment
Attorney Docket No. 05245.00001

And we authorize the ASSIGNEE or its NOMINEES to file in our names or their own, as appropriate, application for LETTERS PATENT in any and all countries of the world, and we authorize and request the Commissioner of Patents and Trademarks of the United States, and any proper official of any country, to issue to said ASSIGNEE or its NOMINEES any and all LETTERS PATENT for said application, inventions and improvements, for their sole use, to the full end of the term for which such LETTERS PATENT may be granted;

And we hereby grant our attorneys at the law firm of Banner & Witcoff the power to insert into this document information sufficient to identify the patent application to which this assignment pertains.

Date: 30 May 2001

Inventor:

K. Kannan
Anand KANNAN

Date: _____

Inventor:

Tamer KADOUS

Note: No legalization or other witness required.

LAW OFFICES
BANNER & WITCOFF, LTD.
1001 G STREET, N.W.
WASHINGTON, D.C. 20001-4597
(202) 508-9100

Attorney Docket No. 05245.00001

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Date: 05/30/01 Inventor: 
Tamer KADOUS

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