

10-06-1998

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Please

document or copy thereof.

1. Name of Party(ies) conveying an interest:

Ali S. Khayrallah and Kumar Balachandran

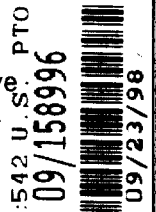
Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and Address of Party(ies) receiving an interest:

Name: Ericsson Inc.
 Internal Address:
 Street Address: 7001 Development Drive
 City: Research Triangle Park
 State/Zip: NC 27709

Additional name(s) and addresses attached?

☐ Yes ☒ No

3. Description of the interest conveyed:

☒ Assignment ☐ Change of Name Other:☐ Security Agreement ☐ MergerExecution Date: September 21, 19984. Application number(s) or patent number(s). Additional sheet attached? ☐ Yes ☒ No

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

September 21, 1998 Date

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:

Lawrence A. Steward
 BRINKS HOFER GILSON & LIONE
 One Indiana Square, Suite 2425
 Indianapolis, IN 46204
 (317) 636-0886

6. Number of applications and patents involved: one7. Total fee (37 CFR 3.41) \$ 40.00☒ Enclosed☐ Authorized to be charged to Deposit Account No. 23-19258. ☒ Please charge any deficiencies in fee or credit any overpayment to Deposit Account No. 23-1925.

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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.

Lawrence A. Steward
 Name of Person Signing

Signature

September 23, 1998
 Date

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

Rev. Feb-97

PATENT
 REEL: 9482 FRAME: 0656

ASSIGNMENT

WHEREAS, Ali S. Khayrallah and Kumar Balachandran, hereinafter called "Assignors," have made the invention described in the United States patent application entitled METHOD FOR OVERLAY OF NARROWBAND AND WIDEBAND COMMUNICATION SYSTEMS, and each Assignor has executed the Declaration for said application on the same date that he executed this Assignment;

WHEREAS, Ericsson Inc., a corporation organized and existing under the laws of the State of Delaware, having a place of business at 7001 Development Drive, Research Triangle Park, North Carolina 27709, hereinafter called the "Assignee", desires to acquire the entire right, title and interest of the Assignors in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals, reissues, reexaminations and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

Each Assignor hereby covenants and agrees, for both the Assignor and the Assignor's legal representatives, that the Assignor will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents;

and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignor will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATED:

9/21/98

Ali S. Khayrallah

Ali S. Khayrallah

DATED:

9/21/98

Kumar Balachandran

Kumar Balachandran

STATE OF North Carolina)
COUNTY OF Wake) ss.

I, Barbara A. Friedewald, A Notary Public in and for the County and State
aforesaid, do hereby certify that Ali S. Khayrallah, personally known to me to be the same person
whose name is subscribed to the foregoing instrument, appeared before me this day in person and
acknowledged that he signed and delivered said instrument as his free and voluntary act for the
uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this
21st day of Sept, 1998.

Barbara A. Friedewald
Notary Public

(SEAL)

My Commission Expires: March 1, 2003

STATE OF North Carolina)
COUNTY OF Wake) ss.

I, Barbara A. Friedewald, A Notary Public in and for the County and State aforesaid, do
hereby certify that Kumar Balachandran, personally known to me to be the same person whose name is subscribed
to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered
said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this
21st day of Sept, 1998.

Barbara A. Friedewald
Notary Public

(SEAL)

My Commission Expires: March 1, 2003