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06-14-2004

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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

The Honorable Commissioner of Patents and

original documents or copy thereof.

1. Name of conveying party(ies):
 Douglas A. Cairns
 Gregory E. Bottomley
 Yi-Pin Eric Wang
 Tracy L. Fulghum
 Elias Jonsson

Additional names of conveying party(ies) attached? ☐ yes ☐ no

102765255

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

Name: Ericsson Inc.

Internal Address: _____

Street Address: 6300 Legacy DriveCity Plano State Texas Zip 75024Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: 5/7/04 and 5/28/04

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: _____

A. Patent Application No.(s)
10/800,167

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Michael D. MurphyInternal Address: Coats & Bennett, P.L.L.C.Street Address: 1400 Crescent Green, Suite 300City: Cary State: NC Zip: 275116. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$40.00☒ Enclosed☒ Authorized to be charged to deposit account8. Deposit account number: 18-1167

(Attach duplicate copy of this page if paying by deposit account)

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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 D. Murphy

Name of Person Signing

Signature

6/3/04

Date

Total number of pages comprising cover sheet: 1

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06/10/2004 DBYRNE 00000048 10800167

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PATENT
REEL: 015435 FRAME: 0653

Attorney Docket Number
4015-5161/P18204-US1-PUMP(Lund)

ASSIGNMENT LETTER

In consideration of One Dollar and Other good and valuable consideration, of which we acknowledge receipt, we, **Douglas A. Cairns**, a citizen of the United States, residing at **3905 Springstop Lane, Durham, NC 27705**; **Gregory E. Bottomley**, a citizen of the United States, residing at **100 Merlot Court, Cary, NC 27511**; **Yi-Pin Eric Wang**, a citizen of Taiwan, residing at **215 Cedarpost Drive, Cary, NC 27513**; **Tracy L. Fulghum**, a citizen of the United States, residing at **5913 Rustic Wood Lane, Durham, NC 27713**; and **Ellas Jonsson**, a citizen of Sweden, residing at **Södra Promenaden 3, SE-211 MALMÖ, Sweden**; sell and assign to Ericsson Inc., a Delaware Corporation (the Company), its successors and assigns the entire right, title, and interest in and to the improvements in a **Method and Apparatus for Parameter Estimation in a Generalized RAKE Receiver**, invented by us, as described in the application for United States patent identified by Serial No. 10/800,167, filed on March 12, 2004, and any and all applications for patent and patents therefor in any and all countries, including all divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patents on said improvements or resulting therefrom to said Ericsson Inc., or its successors or assigns and agree that on request and without further consideration, but at the expense of the Company, we will communicate to said Company or its representatives or nominees any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, and nominees to obtain and enforce proper patent protection for the improvements in all countries.

Date

Douglas A. Cairns

Date

Gregory E. Bottomley

Date

Yi-Pin Eric Wang

Date

Tracy L. Fulghum

28th of May 2004

Date

Ellas Jonsson
Elias Jonsson

Attorney Docket Number
4015-5161/P18204-US1-PUMP(Lund)

ASSIGNMENT LETTER

STATE OF _____
_____ County

I, _____, a Notary Public for said County and State, do hereby certify that Douglas A. Cairns personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the _____ day of _____, 20____.

(Official Seal)

Notary Public

My commission expires _____, _____.

STATE OF _____
_____ County

I, _____, a Notary Public for said County and State, do hereby certify that Gregory E. Bottomley personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the _____ day of _____, 20____.

(Official Seal)

Notary Public

My commission expires _____, _____.

Attorney Docket Number
4015-5161/P18204-US1-PUMP(Lund)

ASSIGNMENT LETTER

STATE OF _____
_____ County

I, _____, a Notary Public for said County and State, do hereby certify that Yi-Pin Eric Wang personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the _____ day of _____, 20_____.

(Official Seal)

Notary Public

My commission expires _____, _____.

STATE OF _____
_____ County

I, _____, a Notary Public for said County and State, do hereby certify that Tracy L. Fulghum personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the _____ day of _____, 20_____.

(Official Seal)

Notary Public

My commission expires _____, _____.

Attorney Docket Number
4015-5161/P18204-US1-PUMP(Lund)

ASSIGNMENT LETTER

In consideration of One Dollar and Other good and valuable consideration, of which we acknowledge receipt, we, **Douglas A. Cairns**, a citizen of the United States, residing at **3905 Springstop Lane, Durham, NC 27705**; **Gregory E. Bottomley**, a citizen of the United States, residing at **100 Merlot Court, Cary, NC 27511**; **Yi-Pin Eric Wang**, a citizen of Taiwan, residing at **215 Cedarpost Drive, Cary, NC 27513**; **Tracy L. Fulghum**, a citizen of the United States, residing at **5913 Rustic Wood Lane, Durham, NC 27713**; and **Elias Jonsson**, a citizen of Sweden, residing at **Södra Promenaden 3, SE-211 MALMÖ, Sweden**; sell and assign to Ericsson Inc., a Delaware Corporation (the Company), its successors and assigns the entire right, title, and interest in and to the improvements in a **Method and Apparatus for Parameter Estimation in a Generalized RAKE Receiver**, invented by us, as described in the application for United States patent identified by Serial No. 10/800,167, filed on March 12, 2004, and any and all applications for patent and patents therefor in any and all countries, including all divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patents on said improvements or resulting therefrom to said Ericsson Inc., or its successors or assigns and agree that on request and without further consideration, but at the expense of the Company, we will communicate to said Company or its representatives or nominees any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, and nominees to obtain and enforce proper patent protection for the improvements in all countries.

May 7, 2004
Date

May 7, 2004
Date

May 7, 2004
Date

May 7, 2004
Date

Date

Douglas Cairns
Douglas A. Cairns

Gregory E. Bottomley
Gregory E. Bottomley

Yi-Pin Eric Wang
Yi-Pin Eric Wang

Tracy L. Fulghum
Tracy L. Fulghum

Elias Jonsson

Attorney Docket Number
4015-5161/P18204-US1-PUMP(Lund)

ASSIGNMENT LETTER

STATE OF North Carolina
Wake County

I, Vicki J. Redmond, a Notary Public for said County and State, do hereby certify that Douglas A. Cairns personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 7th day of May,
2004.

(Official Seal)

Vicki J. Redmond
Notary Public

My commission expires June 23, 2004.

STATE OF North Carolina
Wake County

I, Vicki J. Redmond, a Notary Public for said County and State, do hereby certify that Gregory E. Bottomley personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 7th day of May,
2004.

(Official Seal)

Vicki J. Redmond
Notary Public

My commission expires June 23, 2004.

Attorney Docket Number
4015-5161/P18204-US1-PUMP(Lund)

ASSIGNMENT LETTER

STATE OF North Carolina
Wake County

I, Victi J. Redmond, a Notary Public for said County and State, do hereby certify that Yi-Pin Eric Wang personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 7th day of May, 2004.

(Official Seal)

Victi J. Redmond
Notary Public

My commission expires June 23, 2004.

STATE OF North Carolina
Wake County

I, Victi J. Redmond, a Notary Public for said County and State, do hereby certify that Tracy L. Fulghum personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 7th day of May, 2004.

(Official Seal)

Victi J. Redmond
Notary Public

My commission expires June 23, 2004.