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Attorney's Docket No. 040010-778

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

1. Name of conveying party(ies):

Ingemar JOHANSSON

Additional name(s) of conveying party(ies) attached? [] Yes [X] No

3. Nature of conveyance:

[X] Assignment [] Merger
[] Security Agreement [] Change of Name

Other: _____

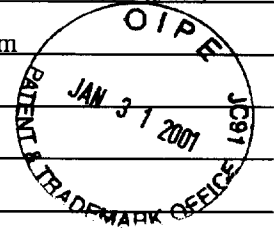
Execution Date: January 16, 2001

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

Name: Telefonaktiebolaget LM Ericsson (publ)

Address: SE-126, 25 Stockholm

SWEDEN



Additional name(s) & address(es) attached? [] Yes [X] No

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)

09/717,067

B. Patent No.(s)

Additional numbers attached? [] Yes [X] No

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

Name: Steven M. duBois

Address: BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404

Alexandria, Virginia 22313-1404

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR § 3.41): \$ 40.00

[X] Enclosed

[X] Authorized to be charged to deposit account, if necessary

8. Deposit account number:

02-4800

02/06/2001 DBYRNE 00000217 09/717067

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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.

Mark W. Hrozenchik
Name of Person Signing
Registration No. 45,316

Signature

January 31, 2001
Date

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

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

ASSIGNMENT

(SOLE)

THIS ASSIGNMENT, by INGEMAR JOHANSSON, residing at Box 1038, SE-651/5,
KARLSTAD, SWEDEN (hereinafter referred to as "the Assignor"), witnesseth:

WHEREAS, the Assignor has invented certain new and useful improvements in JOINT
LEAST-SQUARE SYNCHRONIZATION, CHANNEL ESTIMATION AND NOISE ESTIMATION set forth
in an application, which is a

provisional application non-provisional application

1. (a) filed herewith;
(b) to be filed;
2. having an oath or declaration executed on even date herewith prior to filing of
application;
3. bearing Application No. 09/717,067, and filed on NOVEMBER 22, 2000; and

WHEREAS, Telefonaktiebolaget LM Ericsson (publ), a corporation duly organized under
and pursuant to the laws of Sweden and having its principal place of business at SE-126, 25
STOCKHOLM, SWEDEN (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire
right, title, and interest in and to said inventions, the right to file applications on said inventions and
the entire right, title and interest in and to any applications, including provisional applications for
Letters Patent of the United States or other countries claiming priority to said application, and in
and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and
sufficient consideration, the receipt of which is hereby acknowledged, the Assignor has sold,
assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over,
unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and
interest in and to the above-mentioned inventions, the right to file applications on said inventions
and the entire right, title and interest in and to any applications for Letters Patent of the United
States or other countries claiming priority to said application, and any and all Letters Patent or
Patents of the United States of America and all foreign countries that may be granted therefor and
thereon, and in and to any and all applications claiming priority to said applications, divisions,
continuations, and continuations-in-part of said applications, and reissues and extensions of said
Letters Patent or Patents, and all rights under the International Convention for the Protection of
Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf
and the use and behalf of its successors, legal representatives, and assigns, to the full end of the
term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same
would have been held and enjoyed by the Assignor had this sale and assignment not been made;

AND for the same consideration, the Assignor hereby covenants and agrees to and
with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution
and delivery of these presents, the Assignor is the sole and lawful owner of the entire right, title,
and interest in and to the inventions set forth in said applications and said applications, including
provisional applications, above-mentioned, and that the same are unencumbered, and that the
Assignor has good and full right and lawful authority to sell and convey the same in the manner
herein set forth;

AND for the same consideration, the Assignor hereby covenants and agrees to and
with the Assignee, its successors, legal representatives, and assigns that the Assignor will,
whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and
assigns, shall advise that any proceeding in connection with said inventions or said applications for
Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said
inventions in any country, including interference proceedings, is lawful and desirable, or that any

application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignor hereby authorizes and requests the attorneys of BURNS, DOANE, SWECKER & MATHIS, L.L.P. of Alexandria, Virginia to insert in the spaces provided above the filing date, application number, and attorney docket number of said application when known.

AND the Assignor hereby requests the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee, as the Assignee of said inventions and the Letters Patent to be issued thereon for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date 2001-01-16 Signature of Assignor


Ingemar JOHANSSON