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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

EET

Attorney's Docket No. 040020-218

| To the Honorable Commissioner of Patents and Trademarks. | Please record the attached original documents or copy thereof. | |
|--|---|--|
| 1. Name of conveying party(ies): | 2. Name and address of receiving party(ies): | |
| Joakim QUENSEL and Petter LJUNG | Name: Telefonaktiebolaget LM Ericsson | |
| Additional name(s) of conveying party(ies) attached? [] Yes [X] No 3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name Other: | Address: S-126 25 Stockholm SWEDEN | |
| Execution Date: November 1, 1999 | Additional name(s) & address(es) attached? [] Yes [X] No | |
| Application number(s) or patent number(s): If this document is being filed together with a new application, the A. Patent Application No.(s) | e execution date of the application is: November 1, 1999 B. Patent No.(s) | |
| Additional numbers attach | ned? [] Yes [X] No | |
| 5. Name and address of party to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: One (1) | |
| Name: Ronald L. Grudziecki Address: Burns, Doane, Swecker & Mathis, L.L.P. P.O. Box 1404 | 7. Total fee (37 CFR 3.41): \$40.00 [X] Enclosed [X] Authorized to be charged to deposit account, if necessary | |
| Alexandria, Virginia 22313-1404 /2000 NTWITTY 00000014 09465768 | 8. Deposit account number: _02-4800 | |
| DO NOT USE THIS SPACE | | |
| 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true of Michael A. Wrenn, Reg. No. 42,237 Name of Person Signing Total m | and correct artifacts anached copy is a true copy of the original document. December 17, 1999 Signature Date | |

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

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

(09/99)

PATENT (C) REEL: 010468 FRAME: 0525

| Attorney | Docket | No |
|----------|--------|----|

ASSIGNMENT (Joint)

THIS ASSIGNMENT, by Joakim Quensel Petter Ljung

residing at

3A/CA/9 Mont'Kiara Sophia 2/70 C Off Jalan Bukit Kiara 50 480 Kuala Lumpur MALAYSIA

Tantogatan 67 118 42 STOCKHOLM SWEDEN

(hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in Method and means for telecom

| () for which is a provisional application to be filed | herewith; (X) which is a non-provisional |
|--|--|
| application having an oath or declaration executed | on even date herewith prior to filing of |
| application; () bearing No. | , and filed on |
| | , 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 Assignors have sold, assigned, transferred, and set over, and by these presents do 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 ganted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

Page 1 of 2

AND for the same consideration, the Assignors hereby convenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery these presents, the Assignors 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 Assignors have good and full right and lawful authority to sell and convay the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors 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 for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, continuation-in-part of any applications for Letters Patent, or any reissue or extension of any Letters Patent 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 for said inventions, without charge to Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

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

Date 99-1/01 Signature of Assignor

Date 99-1/01 Signature of Assignor

Petter Ljung

RECORDED: 12/17/1999