

# PATENT ASSIGNMENT

**SUBMISSION TYPE:** NEW ASSIGNMENT

**APPLICATION NUMBER**  
**10/248082**

**NATURE OF CONVEYANCE:** ASSIGNMENT OF ASSIGNOR'S INTEREST

## CONVEYING PARTY DATA

**Name:** Sadler, Robert A.

**Execution Date:** 12/09/2002

**Name:** Hwang, Huan-Sheng

**Execution Date:** 12/09/2002

**Name:** Hayes, Gerard James

**Execution Date:** 12/09/2002

## RECEIVING PARTY DATA

**Name:** SONY ERICSSON MOBILE COMMUNICATIONS AB

**Street Address:** Nya Vattentorget

**Internal Address:**

**City:** Lund

**State:**

**Country:** SWEDEN

**Postal Code:** S221-88

The USPTO, Office of Public Records, will send correspondence via facsimile to **FAX NUMBER:** 919-286-8144

## CORRESPONDENCE DATA:

*Correspondence will be sent via US Mail when a fax number has not been provided or the fax attempt is unsuccessful.*

When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the official record on file at the USPTO.

**CUSTOMER NUMBER:** 024239

**NAME OF PERSON SIGNING:** Steven B. Phillips

**DATE SIGNED:** 12/17/2002

**Total Attachments:** 3



**ASSIGNMENT**

**WHEREAS**, the undersigned inventor(s), hereinafter called the "Assignor", has invented a new and useful invention entitled:

**MULTI-BAND, INVERTED-F ANTENNA WITH CAPACITIVELY CREATED  
RESONANCE, AND RADIO TERMINAL USING SAME**

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.

**WHEREAS**, SONY ERICSSON MOBILE COMMUNICATIONS AB, a foreign corporation having a principal office and place of business at, Nya Vattentornet, S-221 88 Lund, Sweden, hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

**NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN**, be it known that for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, and all Letters Patents that may issue for the said invention, and all divisions, reissues, substitutions, continuations, and extensions thereof, 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 for which any and all of said Letters Patents for the said invention may issue.

**FURTHER**, be it known that the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignor does hereby covenant and agree, for himself and his legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as hereinbefore set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and

Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, any facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

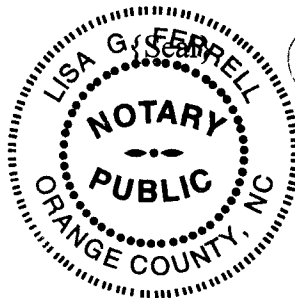
**IN TESTIMONY WHEREOF**, the undersigned has(have) hereunto set his(their) hand(s) and seal(s) on the date after his(their) signature(s).

(L.S.) *Robert Anthony Sadler*  
Robert Anthony Sadler

12/9/2002  
Date

State of NORTH CAROLINA )  
County of Wake )

On this 9<sup>th</sup> day of December 2002, before me personally appeared Robert Anthony Sadler, to me personally known, and known to me to be the person(s) who signed the foregoing assignment, and acknowledged the signing of same as his(their) free act and deed.



*Lisa G. Ferrell*  
Notary Public

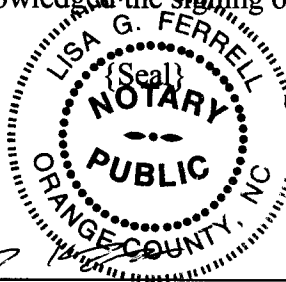
My Commission Expires: March 11, 2003

(L.S.) Huan-Sheng Hwang  
**Huan-Sheng Hwang**

12/9/2002  
**Date**

State of NORTH CAROLINA )  
 County of Wake )

On this 9th day of December, 2002, before me personally appeared Huan-Sheng Hwang, to me personally known, and known to me to be the person(s) who signed the foregoing assignment, and acknowledged the signing of same as his(their) free act and deed.



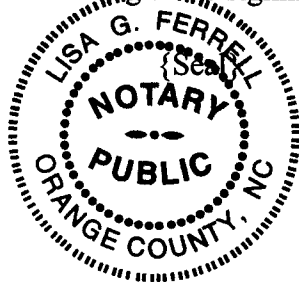
Lisa G. Ferrell  
 Notary Public  
 My Commission Expires: March 11, 2003

(L.S.) Gerard James Hayes  
**Gerard James Hayes**

9 DEC 02  
**Date**

State of NORTH CAROLINA )  
 County of Wake )

On this 9th day of December, 2002, before me personally appeared Gerard James Hayes, to me personally known, and known to me to be the person(s) who signed the foregoing assignment, and acknowledged the signing of same as his(their) free act and deed.



Lisa G. Ferrell  
 Notary Public  
 My Commission Expires: March 11, 2003