		04-13-2005	FLH Ref. No.: 450100-0551
- i-	RI		U.S. DEPARTMENT OF COMMERCE
			Patent and Trademark Office
	To the Honorable Commissioner of Pa	102979003	original documents or copy thereof.
1.	Name of conveying party	2. Name a	nd address of receiving party(ies)
	Masahisa TAMURA		ricsson Mobile Communications Japan, Inc. 92
	Additional name(s) of conveying party(ies) attached?YesX_No	Tokyo,	
3.	Nature of conveyance:	Additio	nal name(s) & address(es) attached? YesX No
	X Assignment Security Agreement Merger Change of Name Other		
	Execution Date(s): March 22, 2005		
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: March 22, 2005		
	A. Patent Application No., filed.		
	Additional numbers attached? Yes \underline{X} No		
5.	Name and address of party to whom correspondence document should be mailed:	concerning 6. Total n	umber of applications and patents involved <u>1</u>
	Name: WILLIAM S. FROMMER	7. Total fo	ee (37 CFR 3.41) \$ 40.00
	Internal Address: FROMMER LAWRENCE & H. Street Address: 745 FIFTH AVENUE	AUG LLP <u>X</u> End	closed thorized to be charged to deposit account 50-0320
	City: NEW YORK State: NY Zip:	8. Deposi	t account number: a duplicate copy of this page if paying by deposit account)
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			Total number of pages including cover sheet, attachments, and document: $\underline{2}$
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tł tł	e document and gathering the data needed, and com	pleting and reviewing the samplermation Systems, PK2-1000C,	inutes per document to be recorded, including time for reviewing e cover sheet. Send comments regarding this burden estimate to Washington, D.C. 20231, and to the Office of Management and

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CMS Docket Number:

ASSIGNMENT

WHEREAS, I, as below named inventors, residing at the addresses stated next to our names, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in

DELTA-SIGMA MODULATED FRACTIONAL-N PLL FREQUENCY SYNTHESIZER AND WIRELESS COMMUNICATION APPARATUS

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, Sony Ericsson Mobile Communications Japan, Inc. with offices at 1-8-15, Konan, Minato-ku, Tokyo, Japan (hereinafter referred to as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filling of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: Serial Number: _______, Filing Date: ______.

This assignment executed on the dates indicated below.

Masahisa TAMURA

Name of first or sole inventor Execution date of U.S. Patent Application Kanagawa, Japan

Name of first or sole inventor

Residence of first or sole inventor

Masalisa Tamura

Signature of first or sole inventor

Name of second inventor

Residence of second inventor

Date of this assignment

Execution date of U.S. Patent Application

Residence of second inventor

Date of this assignment

Date of this assignment

Execution date of U.S. Patent Application

Residence of second inventor

Date of this assignment

Execution date of U.S. Patent Application

Residence of third inventor

Execution date of U.S. Patent Application

Date of this assignment

RECORDED: 03/31/2005

Signature of third inventor

PATENT REEL: 016445 FRAME: 0668