

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KATSUMI AOYAGI	09/17/2010
RUTGER LJUNDQVIST	09/14/2010
HANS WACHTMEISTER	09/17/2010
HAEKAN PALM	09/14/2010
KENJI TAKAO	09/17/2010
MASAYA TAKAHASHI	09/17/2010
YOSHIYUKI HAMA	09/21/2010
YIMIN LI	09/27/2010
TOSHIHISA SANBOMMATSU	09/14/2010
TOMOHIRO ICHIKAWA	09/27/2010
RECEIVING PARTY DATA	
Name:	SONY ERICSSON MOBILE COMMUNICATIONS JAPAN, INC.
Street Address:	1-8-15, KONAN, MINATO-KU
City:	TOKYO
State/Country:	JAPAN
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13105538
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NAME OF SUBMITTER:	L. SCOTT BLOEBAUM
SIGNATURE:	/l. scott bloebaum/
DATE SIGNED:	02/02/2016
Total Attachments: 3 source=Assignment 13105538 from 61380576#page1.tif source=Assignment 13105538 from 61380576#page2.tif source=Assignment 13105538 from 61380576#page3.tif	

ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, 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

MEMORY MANAGEMENT METHODS AND DEVICE

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., a Japanese corporation with offices at 1-8-15, Konan, Minato-ku, Tokyo, Japan (hereinafter referenced as "ASSIGNEE SEJP") 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;

AND WHEREAS, Sony Ericsson Mobile Communications AB, a Swedish corporation with offices at Nya Vattentornet, 221 88 Lund, Sweden (hereinafter referenced as "ASSIGNEE SEAB") is desirous of acquiring all the 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 held by ASSIGNEE SEJP as the sole owner to the rights by this assignment ;

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 SEJP, 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 filing of applications for patents or securing of patents in the United States and countries foreign thereto; and

CONCURRENTLY HERewith 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, ASSIGNEE SEJP by these presents do hereby assign, sell and transfer unto the said ASSIGNEE SEAB, 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 filing of applications for patents or securing of patents in the United States and countries foreign thereto,

The undersigned inventor(s) and ASSIGNEE SEJP hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE SEAB, as the assignee of the whole right, title and interest thereto;

The undersigned inventor(s) and ASSIGNEE SEJP further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE SEAB 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;

The undersigned inventor(s) and ASSIGNEE SEJP 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;

The undersigned inventor(s) and ASSIGNEE SEJP further agree that ASSIGNEE SEAB 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;

The undersigned inventor(s) and ASSIGNEE SEJP 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 application number

61/380,576

Filing Date: September 7, 2010

This assignment executed on the dates indicated below.

Katsumi AOYAGI

Name of first or sole inventor

Execution date of U.S. Patent Application

Tokyo, Japan

Residence of first or sole inventor

Katsumi Aoyagi

Signature of first or sole inventor

September 17 2010

Date of this assignment

Rutger LJUNGQVIST

Name of second inventor

Execution date of U.S. Patent Application

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Residence of second inventor

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Signature of second inventor

September 14, 2010

Date of this assignment

Hans WACHTMEISTER

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Date of this assignment

Haakan PALM

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September 17, 2010
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Yoshiyuki HAMA

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September 21, 2010
Date of this assignment

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Sept 17/2010
Date of this assignment

Toshihisa SANBOMMATSU

Name of ninth or sole inventor

Execution date of U.S. Patent Application

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Residence of ninth or sole inventor

三本松 利尚

Signature of ninth or sole inventor

September 14, 2010
Date of this assignment

Tomohiro ICHIKAWA

Name of tenth or sole inventor

Execution date of U.S. Patent Application

Tokyo, Japan

Residence of tenth or sole inventor

市川 知夫

Signature of tenth or sole inventor

September 27, 2010
Date of this assignment

SONY ERICSSON MOBILE COMMUNICATIONS JAPAN, INC.

Date: Oct. 19, 2010

By:

HIROSHI DATE

Name: HIROSHI DATE
Title: Senior Manager of IPR Sec.