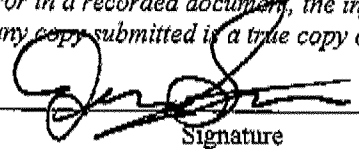


RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached document(s) or the new address(es) below:

<p>1. Name of conveying party(ies): Anna PANTELIDOU; Sami-Jukka HAKOLA; Timo KOSKELA; and, Samuli TURPINEN</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): Name: Renesas Mobile Corporation</p> <p>Address: 6-2, Otemachi 2-chome Chiyoda-ku</p> <p>City: Tokyo State: ZIP Code: 100-0004</p> <p>Country: Japan</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:</p> <p>Execution Date(s): April 3, 2012; April 4, 2012; April 12, 2012; and April 3, 2012, respectively</p>	<p>4. Application number(s) or patent number(s): <input type="checkbox"/> This document is being filed together with a new application.</p> <p>A. Patent Application No.(s): 13/418,746</p> <p>B. Patent No.(s):</p> <p style="text-align: right;">Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Jerry Stanton Address: Harrington & Smith, Attorneys At Law, LLC 4 Research Drive, Suite 202</p> <p>City: Shelton</p> <p>State: CT ZIP Code: 06484-6212</p>	<p>6. Total number of applications and/or patents involved: 1</p> <p>7. Total fee (37 CFR 3.41):\$40.00</p> <p><input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Charge deposit account <input checked="" type="checkbox"/> Please charge any fee deficiency to deposit account</p> <p>8. Deposit account number: <u>50-1924</u></p>
<p>9. Signature: <i>If this is a new cover sheet to correct an error in a recorded document, the information provided on this new cover sheet is true and correct and any copy submitted is a true copy of the original document.</i></p> <p><u>Jerry Stanton</u> Name of Person Signing</p> <p style="text-align: center;"> Signature</p> <p style="text-align: right;"><u>April 12, 2012</u> Date</p> <p style="text-align: right;">Total number of pages including cover sheet(s), attachments, and documents: 7</p> <p style="text-align: right;">Page 2 of 7.</p>	

CH \$40.00 501924 13418746

Assignee docket RM115192US

ASSIGNMENT

Title of Invention	Methods and Apparatus for Multicast Transmission
Filing Details	<p>This assignment is directed to useful improvements as described in (check all that apply) :</p> <p><input type="checkbox"/> US Provisional Application No. _____ Filed On _____</p> <p><input checked="" type="checkbox"/> US Application No. 13/418,746 Filed On March 13, 2012</p> <p><input type="checkbox"/> a 371 national stage of _____ Filed On _____</p> <p><input checked="" type="checkbox"/> United Kingdom Patent Application GB1114635.4 Filed On August 24, 2011</p> <p><input type="checkbox"/> PCT Application No. _____ Filed On _____</p>

This ASSIGNMENT is between inventor(s) Anna PANTELIDOU; Sami-Jukka HAKOLA; Timo KOSKELA; and, Samuli TURPINEN as Assignor(s); and RENESAS MOBILE CORPORATION as Assignee.

As the below named inventor(s), I/we have invented certain improvements in the patent application for which I/we have filed an application for Letters Patent as identified above;

WHEREAS, I/we authorize the attorney of record to update this document to include Filing Details as listed above (i.e., filing date, serial number, etc.) to correspond to the Title of the Invention and Docket Number if such Filing Details are not available at the time I/we signed this document;

WHEREAS, RENESAS MOBILE CORPORATION, a corporation organized under the laws of Japan, having its principal office in 6-2, Otemachi 2-chome, Chiyoda-ku, Tokyo, Japan, is desirous of acquiring the entire right, title and interest in and under the said invention and the said application, and in and to any and all Letters Patent which shall be granted therefore in any and all countries where it has been filed, including all rights to claim priority, and to any and all improvements which are disclosed in the invention entitled,

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said Assignee, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under said invention, and said application, and all divisional, renewal, substitutional, non-provisional, and continuing applications thereof, and all Letters Patent of any and all countries which may be granted thereon and all reissues, reexaminations, and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries, and all extensions, renewals, reexaminations, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the official of any country or countries, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

Assignee docket RM115192US

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said Assignee, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, reexamination, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

This Assignment is deemed to be effective at least as early as June 6, 2011 (the first filing priority date).

Inventor Name: Anna PANTELIDOU
Residence Address: Tiedonkaari 5 C12
Oulu, Finland 90570



Inventor Signature

Dated: 3-4-2012



Witness Signature

Witness Name: JARKKO KEMPAINEN

Assignee docket RM115192US

Inventor Name: Sami-Jukka HAKOLA
Residence Address: Peikontie 7
Kempele, Finland 90450



Inventor Signature

Dated: April 4 2012



Witness Signature


Witness Name: JARRO KEMPELE

Assignee docket RM115192US

Inventor Name: Timo KOSKELA
Residence Address: Rautatiekatu 50 as 5
Oulu, Finland 90120


Inventor Signature

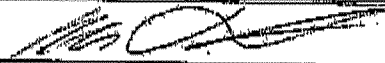
Dated: 12.4.2012


Witness Signature

Witness Name: JARVO KEMPPINEN

Assignee docket RM115192US

Inventor Name: Samuli TURPINEN
Residence Address: Poolatie 3a
II, Finland 91100


Inventor Signature

Dated: 03-04-2012


Witness Signature

Witness Name: JATKKA KEMPPINEN