

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Timo Koskela</td> <td>05/16/2011</td> </tr> <tr> <td>Sami-Jukka Hakola</td> <td>05/12/2011</td> </tr> <tr> <td>Samuli Turtinen</td> <td>05/12/2011</td> </tr> <tr> <td>Chunyan Gao</td> <td>05/13/2011</td> </tr> </tbody> </table>		Name	Execution Date	Timo Koskela	05/16/2011	Sami-Jukka Hakola	05/12/2011	Samuli Turtinen	05/12/2011	Chunyan Gao	05/13/2011		
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<table border="1"> <tr> <td>Name:</td> <td>Renesas Mobile Corporation</td> </tr> <tr> <td>Street Address:</td> <td>6-2, Otemachi 2-chome</td> </tr> <tr> <td>Internal Address:</td> <td>Chiyoda-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>Tokyo</td> </tr> </table>		Name:	Renesas Mobile Corporation	Street Address:	6-2, Otemachi 2-chome	Internal Address:	Chiyoda-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	Tokyo
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CORRESPONDENCE DATA													
<p>Fax Number:</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 860-521-0829</p> <p>Email: patent@stantonip.com</p> <p>Correspondent Name: Stanton IP Law</p> <p>Address Line 1: 433 South Main Street</p> <p>Address Line 2: #105</p> <p>Address Line 4: West Hartford, CONNECTICUT 06110</p>													
ATTORNEY DOCKET NUMBER:	12.0276US-1												
NAME OF SUBMITTER:	Jerry Stanton												

Signature:	/Jerry Stanton/
Date:	08/09/2013
Total Attachments: 5 source=RM105005_Assignment#page1.tif source=RM105005_Assignment#page2.tif source=RM105005_Assignment#page3.tif source=RM105005_Assignment#page4.tif source=RM105005_Assignment#page5.tif	

ASSIGNMENT

Title of Invention	SIGNALING METHOD TO ENABLE CONTROLLED TX DEFERRING IN MIXED LICENSED AND UNLICENSED SPECTRUM CARRIER AGGREGATION IN FUTURE LTE-A NETWORKS		
Filing Details	This assignment is directed to (check all that apply) :		
<input type="checkbox"/>	US Provisional Application No. _____	Filed On _____	
<input checked="" type="checkbox"/>	US Application No. <u>13/963,399</u>	Filed On <u>August 9, 2013</u>	
<input type="checkbox"/>	a 371 national stage of _____	Filed On _____	
<input type="checkbox"/>	United Kingdom Patent Application _____	Filed On _____	
<input checked="" type="checkbox"/>	PCT Application No. <u>PCT/CN2011/070929</u>	Filed On <u>February 11, 2011</u>	

As the below named inventor(s), I/we,

- (1) **Timo Koskela**, a citizen of Finland and residing at Rautatiekatu 50 as 5, FI-90120 Oulu, Finland;
- (2) **Sami Hakola**, a citizen of Finland and residing at Peikontie 7, FI-90450 Kempele, Finland;
- (3) **Samuli Turtinen**, a citizen of Finland and residing at Poolatie 3a, FI-91100 Ii, Finland;
- (4) **Chunyan Gao**, a citizen of the People's Republic of China and residing at Room 271, Building 6, Ru Yi Li, Bei Cao Chang Hu Tong, Xi Zhi Men Nei Da Jie, Xicheng District, Beijing 100035, China;

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 (hereinafter referred to as "ASSIGNEE"), 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.

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 February 11, 2011 (the first filing priority date).

Inventor Name: Timo Koskela

Timo Koskela
Inventor Signature

Dated: 16.5.2011

Juha Korpela
Witness Signature

Witness Name: JUHA KORPELA

Assignee docket RM105005.

Inventor Name:

Sukka
Sami Hakola

[Signature]
Inventor Signature

Dated:

May 12 2011

[Signature]
Witness Signature

Witness Name:

Juha Kananen

Assignee docket RM105005.

Inventor Name: Samuli Turtinen



Inventor Signature

Dated: May 12, 2011



Witness Signature

Witness Name: JUHANA KARJALAINEN

Assignee docket RM105005.

Inventor Name: Chunyan Gao

Gao Chunyan
Inventor Signature

Dated: 2011-05-13

Jing Han
Witness Signature

Witness Name: JING HAN