

12/16/2011

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12/16/11



R SHEET

103638067

To the Director of the U.S. Pat

attached document(s) or the new address(es) below:



1. Name of conveying party(ies):  
 Samuli TURPINEN  
 Sami-Jukka HAKOLA  
 Timo K. KOSKELA

Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
 Name: Renesas Mobile Corporation  
 Address: 6-2, Otemachi 2-chome  
 Chiyoda-ku  
 City: Tokyo  
 State: ZIP Code: 100-0004  
 Country: Japan  
 Additional name(s) & address(es) attached?  Yes  No

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other:  
 Execution Date(s): November 16, 2011

4. Application number(s) or patent number(s):  This document is being filed together with a new application.  
 A. Patent Application No.(s):  
 13/295,282  
 B. Patent No.(s):  
 Additional numbers attached?  Yes  No

6. Total number of applications and/or patents involved: ..... 1  
 7. Total fee (37 CFR 3.41): .....\$40.00  
 Enclosed  
 Charge deposit account  
 Please charge any fee deficiency to deposit account

5. Name and address of party to whom correspondence concerning document should be mailed:  
 Name: Anatoly Frenkel., Esq.  
 Address: Harrington & Smith,  
 Attorneys At Law, LLC  
 4 Research Drive, Suite 202  
 City: Shelton  
 State: CT ZIP Code: 06484-6212

8. Deposit account number: 50-1924

9. Signature:  
*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.*

Anatoly Frenkel.  
 Name of Person Signing

*A. Frenkel*  
 Signature

12/16/2011 DTIMBERL 00000000 001924 13295288  
 01 FC:0021 40.00 DA  
 Date

Total number of pages including cover sheet(s), attachments, and documents: 5

## ASSIGNMENT

<b>Title of Invention</b>	DISCOVERY IN DEVICE-TO-DEVICE COMMUNICATION		
<b>Filing Details</b>	This assignment is directed to useful improvements as described in (check all that apply) :		
	<input type="checkbox"/> US Provisional Application No. _____	Filed On	_____
	<input checked="" type="checkbox"/> US Application No. <u>13/295,282</u>	Filed On	<u>14 November 2011</u>
	<input type="checkbox"/> a 371 national stage of _____	Filed On	_____
	<input checked="" type="checkbox"/> United Kingdom Patent Application <u>1119512.0</u>	Filed On	<u>11 November 2011</u>
	<input type="checkbox"/> PCT Application No. _____	Filed On	_____

This ASSIGNMENT is between inventors Samuli Turtinen, Sami-Jukka Hakola and Timo K. Koskela as Assignors; 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.

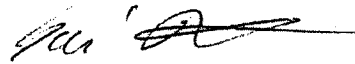
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said Assignee, its successors, 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.

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.

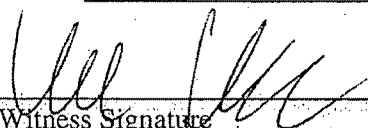
AND WE HEREBY further covenant and agree that we will communicate to said Assignee, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, 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 11 November 2011 (the first filing priority date).

Inventor Name: Samuli TURTINEN  
Residence Address: Poolatie 3 A  
91100 Ii, Finland

  
\_\_\_\_\_  
Inventor Signature

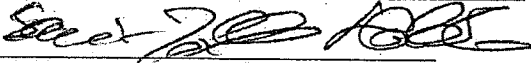
Dated: 16 Nov 2011

  
\_\_\_\_\_  
Witness Signature

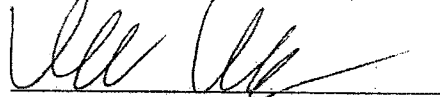
Witness Name: Ville Karttunen

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

  
Inventor Signature

Dated: Nov 16 2011

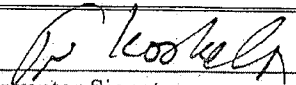
  
Witness Signature

Witness Name: Ville Vartiainen

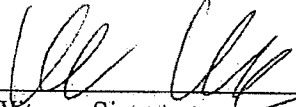
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Inventor Name: Timo K. KOSKELA  
Residence Address: Rautatienkatu 50 as 5  
90120 Oulu, Finland

  
Inventor Signature

Dated: 18 Nov. 2011

  
Witness Signature

Witness Name: Ville Vesterinen

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