

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ERLIN ZENG | 05/04/2011 |
| JING HAN | 05/04/2011 |
| WEI BAI | 05/04/2011 |
| CHUNYAN GAO | 05/04/2011 |
| HAIMING WANG | 05/06/2011 |
| NA WEI | 05/04/2011 |
| RECEIVING PARTY DATA | |
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| State/Country: | JAPAN |
| Postal Code: | 100-0004 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14017584 |
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| SIGNATURE: | /Karlett Roberts/ |
| DATE SIGNED: | 09/12/2014 |
| Total Attachments: 7 | |

PATENT

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ASSIGNMENT

| | | | |
|---------------------------|---|----------|-----------------------|
| Title of Invention | METHOD AND APPARATUS FOR REBALANCING THE SIZES OF THE DOWNLINK (DL) ASSOCIATION SETS FOR COMPONENT CARRIERS HAVING DIFFERENT TIME DIVISION DUPLEX SUBFRAME CONFIGURATIONS | | |
| 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>13/855,232</u> | Filed On | <u>April 2, 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/CN2011/073529</u> | Filed On | <u>April 29, 2011</u> |

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

- (1) **Erlin Zeng**, a citizen of the People's Republic of China and residing at Room 1605, Building A-12, Xi San Qi Jian Cai Cheng Fu Li Tao Yuan, Haidian District, Beijing 100096, China;
- (2) **Jing Han**, a citizen of the People's Republic of China and residing at Room 1212, Building 105, Da Tun Li residential area, Chaoyang District, Beijing 100101, China;
- (3) **Wei Bai**, a citizen of the People's Republic of China and residing at Room 1201, Building 14, Xi Ba He Zhong Li, Chaoyang District, Beijing 100028, China;
- (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;
- (5) **Haiming Wang**, a citizen of the People's Republic of China and residing at Room 1403, Unit 5, Building 101, Jiang Fu Jia Yuan, Jiang Tai Road, Chaoyang District, Beijing 100015, China
- (6) **Na Wei**, a citizen of the People's Republic of China and residing at #609-2-303, Jing Ao Jia Yuan, Chaoyang District, Beijing 100018, 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 April 29, 2011 (the first filing priority date).

Inventor Name: Erlin Zeng

Erlin Zeng
Inventor Signature

Dated: 2011-05-04

Shuang
Witness Signature

Witness Name: TAN SHUANG

Inventor Name: Jing Han Jing Han
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Dated: 2011.5.4
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Witness Name: TAN SHUANG

Inventor Name: Wei Bai Wei Bai
Inventor Signature

Dated: 2011.5.6

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Witness Signature

Witness Name: Zhu, Xuechen.

Atty Dkt. 44522-1077
Assignee docket RM115100.

Inventor Name: Chunyan Gao Gao Chunyan
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Dated: 2011-05-04

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Witness Name: TAN SHUANG

Inventor Name: Haiming Wang Haiming Wang
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Dated: 2011-05-06

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Atty Dkt. 44522-1077
Assignee docket RM115100.

Inventor Name: Na Wei Na Wei
Inventor Signature

Dated: 2011-05-04.

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Witness Name: TAN SHUANG
