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PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |
| | |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| MORTEN HANSEN | 09/03/2013 |
| LARS CHRISTENSEN | 10/03/2013 |

RECEIVING PARTY DATA

| Name: | RENESAS MOBILE CORPORATION | |
|-------------------|----------------------------|--|
| Street Address: | 6-2, OTEMACHI 2-CHOME, | |
| Internal Address: | CHIYODA-KU | |
| City: | TOKYO | |
| State/Country: | JAPAN | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|------------------------------|--------|
| Application Number: 14045994 | |

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|-------------------------|------------------------|
| NAME OF SUBMITTER: | CHRISTOPHER TL DOUGLAS |
| Signature: | /ChristopherTLDouglas/ |
| Date: | 11/11/2013 |

Total Attachments: 3

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PATENT

REEL: 031577 FRAME: 0337

ASSIGNMENT

| Title of Invention | METHOD AND APPARATUS FOR SIGNAL DE DECODING | TECTION AND | | |
|-----------------------|--|--------------------------|--|--|
| Filing | This assignment is directed to (check all that apply): | | | |
| Details | US Provisional Application No. | Filed On | | |
| | ☑ US Application No. 14/045,994 | Filed On October 4, 2013 | | |
| | a 371 national stage of | Filed On | | |
| | United Kingdom Patent Application | Filed On | | |
| | PCT Application No. | Filed On | | |

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 (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.

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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 October 5, 2012 (the first filing priority date).

Inventor Name: Residence Address: Morten Hansen

Stilledale 38, st.th.

2720 Vanlose DENMARK Inventor Signature

ated: Sept. 3, 2013

Witness Signature

Witness Name: PALLA WITTEKIND

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 October 5, 2012 (the first filing priority date).

Inventor Name:

Lars Christensen Residence Address: Bernstorfflund Alle 8A

> 2920 Charlottenlund **DENMARK**

Inventor Signature

Dated: $\frac{3/10 - 2013}{}$

Witness Name: NILS HOFFMANN