

PATENT ASSIGNMENT COVER SHEET

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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>SUJUAN FENG</td> <td>10/14/2013</td> </tr> <tr> <td>ALEXANDER GOLITSCHKEK EDLER VON ELBWART</td> <td>10/14/2013</td> </tr> <tr> <td>CHRISTIAN WENGERTER</td> <td>10/18/2013</td> </tr> <tr> <td>AYAKO HORIUCHI</td> <td>10/17/2013</td> </tr> <tr> <td>AKIHIKO NISHIO</td> <td>10/15/2013</td> </tr> </tbody> </table>		Name	Execution Date	SUJUAN FENG	10/14/2013	ALEXANDER GOLITSCHKEK EDLER VON ELBWART	10/14/2013	CHRISTIAN WENGERTER	10/18/2013	AYAKO HORIUCHI	10/17/2013	AKIHIKO NISHIO	10/15/2013
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RECEIVING PARTY DATA													
Name:	PANASONIC CORPORATION												
Street Address:	1006, OAZA KADOMA, KADOMA-SHI												
City:	OSAKA												
State/Country:	JAPAN												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14006332</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14006332								
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Application Number:	14006332												
CORRESPONDENCE DATA													
Fax Number:	(216)579-6073												
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ATTORNEY DOCKET NUMBER:	PGRU-51671												
NAME OF SUBMITTER:	AARON A. FISHMAN												

Signature:	/Aaron A. Fishman/
Date:	11/18/2013
Total Attachments: 9 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page9.tif	

PA75347US-lau

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in
SEARCH SPACE FOR UPLINK GRANT IN AN AGGREGATED-CARRIER MOBILE
COMMUNICATION SYSTEM

for which an application for Letters Patent of the United States was filed on September 20, 2013 which application is identified by Serial No. 14/006,332 (Pearne & Gordon LLP Docket No. PGRU-51671).

WHEREAS, Panasonic Corporation, a corporation of Japan, having a place of business at 1006, Oaza Kadoma, Kadoma-shi, Osaka, Japan hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventors' certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grant the firm of Pearne & Gordon LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

(1) Inventor Name: Sujuan Feng
Signature: Sujuan Feng
Today's Date: 14/10/2013
Date I Signed Declaration: 14/10/2013
Witness: _____
Witness: _____

(2) Inventor Name: Alexander Golitschek Edler von Elbwart
Signature: Alexander Golitschek Edler von Elbwart
Today's Date: 14/10/2013
Date I Signed Declaration: 14/10/2013
Witness: _____
Witness: _____

(3) Inventor Name: Christian Wengerter
Signature: _____
Today's Date: _____
Date I Signed Declaration: _____
Witness: _____
Witness: _____

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(4) Inventor Name: Ayako Horiuchi

Signature: _____

Today's Date: _____

Date I Signed Declaration: _____

Witness: _____

Witness: _____

(5) Inventor Name: Akihiko Nishio

Signature: _____

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(4) Inventor Name: Ayako Horiuchi

Signature: Ayako Horiuchi

Today's Date: Oct. 17, 2013

Date I Signed Declaration: Oct. 17, 2013

Witness: _____

Witness: _____

(5) Inventor Name: Akihiko Nishio

Signature: Akihiko Nishio

Today's Date: Oct. 15, 2013

Date I Signed Declaration: Oct. 15, 2013

Witness: _____

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(3) Inventor Name: Christian Wengerter

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Today's Date: 18.10.2013

Date I Signed Declaration: 18.10.2013

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Witness: _____

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(4) Inventor Name: Ayako Horiuchi

Signature: _____

Today's Date: _____

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