## 504651410 11/20/2017

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
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Property Type	Number
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DATE SIGNED:	11/20/2017

**Total Attachments: 2** 

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PATENT 504651410 REEL: 044182 FRAME: 0520

## **Assignment of Patent Rights**

For good and valuable consideration, the receipt of which is hereby acknowledged, [Golden Valley Holdings Limited, a company organized under the laws of Samoa having a registered office at Offshore Chambers, P.O. Box 217, Apia, Samoa] ("Assignor"), does hereby sell, assign, transfer and convey unto [Guangdong Oppo Mobile Telecommunications Corp., Ltd., a company organized under the laws of China having a registered address at No. 18 Haibin Road, Wusha, Chang'an, Dongguan, Guangdong China] ("Assignee") or its designees, all right, title and interest in and to (a) all patents listed below; (b) all reissues, reexaminations, continuations, parents, continuations-in-part, divisionals and extensions (whether pending, issued, abandoned or filed after the Effective Date) of such patents; (c) patents (i) to which any or all of the foregoing directly or indirectly claims priority, or (ii) for which any or all of the foregoing directly or indirectly forms a basis for priority; and (d) all foreign counterparts to any or all of the foregoing, including without limitation utility models design patents, certificates of invention and equivalent rights worldwide (collectively "Patent Rights"):

No.	Application Number	Patent Number	Country	Issue Date	Title
1	14/065,976	9276719	us	2016-3-1	METHOD AND APPARATUS FOR GENERATING PILOT TONE IN ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING ACCESS SYSTEM, AND METHOD AND APPARATUS FOR ESTIMATING CHANNEL USING IT
2	14/550,160	_	US		METHOD AND APPARATUS FOR GENERATING PILOT TONE IN ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING ACCESS SYSTEM, AND METHOD AND APPARATUS FOR ESTIMATING CHANNEL USING IT
3	10-2006- 0135417	877750	KR	2008-12-31	Method and apparatus for generating pilot tone in orthogonal frequency division multiplexing access system, and method and apparatus for estimating channel using it
4	12/521,370	8588274	US	2013-11-19	METHOD AND APPARATUS FOR GENERATING PILOT TONE IN ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING ACCESS SYSTEM, AND METHOD AND APPARATUS FOR ESTIMATING CHANNEL USING IT

In addition, Assignor agrees to and hereby does sell, assign, transfer and convey unto Assignee all rights (i) in and to causes of action and enforcement rights for the Patent Rights including all rights to pursue damages, injunctive relief and other remedies for past, present and future infringement of the Patent Rights, (ii) the right to apply (or continue prosecution) in any and all countries of the world for patents, design patents, utility models, certificates of invention or other governmental grants for the Patent Rights, including without limitation under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding, and (iii) the rights, if any, to revive prosecution of any abandoned Patent Rights.

Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention or equivalent which may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

(Signature Page Follows)

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SSIGNEE				
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