

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| GANG CHEN | 12/11/2014 |
| WEI LUO | 12/12/2014 |
| CONGCHAO ZHU | 12/12/2014 |
| RECEIVING PARTY DATA | |
| Name: | HUAWEI DEVICE CO., LTD. |
| Street Address: | Building B2, Huawei Industrial Base |
| Internal Address: | Bantian, Longgang District |
| City: | Shenzhen |
| State/Country: | CHINA |
| Postal Code: | 518129 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14575710 |
| CORRESPONDENCE DATA | |
| Fax Number: | (972)731-2289 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
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| ATTORNEY DOCKET NUMBER: | 4437-21800 (83664261US05) |
| NAME OF SUBMITTER: | GRANT RODOLPH |
| SIGNATURE: | /Grant Rodolph/ |
| DATE SIGNED: | 02/09/2015 |
| Total Attachments: 4 | |
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| source=4437-21800_Signed_Assignment#page2.tif | |
| source=4437-21800_Signed_Assignment#page3.tif | |

ASSIGNMENT

WHEREAS, WE,

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| Gang CHEN BuildingB2, Huawei Industrial Base Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA. ;and | Wei LUO BuildingB2, Huawei Industrial Base Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA. ;and |
|--|--|

Congchao ZHU
BuildingB2, Huawei Industrial Base
Bantian, Longgang District
Shenzhen, 518129, Guangdong
P.R. CHINA.

have invented and own a certain invention entitled:
**IMAGE SHARPENING PROCESSING METHOD AND APPARATUS, AND SHOOTING
TERMINAL**
for which invention we have executed an application (provisional or non-provisional) for a U.S.
patent, which was filed on 18 DEC 2014 , under U.S. Application No. 14/575,710 , and

WHEREAS, HUAWEI DEVICE CO., LTD., of BuildingB2, Huawei Industrial Base,
Bantian, Longgang District, Shenzhen, 518129, Guangdong, P.R. China, hereinafter referred to
as Assignee, is desirous of acquiring the entire domestic and foreign right, title, and interest in
and under the invention described in the patent application.

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of
which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's
legal representatives, successors and assigns the full and exclusive rights in and to the invention
in the U.S. and every foreign country and the entire right, title, and interest in and to the patent
application and other such applications (e.g., provisional applications, non-provisional
applications, continuations, continuations-in-part, divisionals, reissues, reexaminations,
National phase applications, including petty patent applications, and utility model applications)
that may be filed in the United States and every foreign country on the invention, and the
patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon,
and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to
the above-mentioned Assignee agreeably with the terms of this assignment document.

WE HEREBY AUTHORIZE the Assignee to insert in this assignment document the filing
date and application number of the application if the date and number are unavailable at the
time this document is executed.

WE DO HEREBY COVENANT and agree with the Assignee that we will not execute any
writing or do any act whatsoever conflicting with the terms of this assignment document set
forth herein, and that we will at any time upon request, without further or additional
consideration, but at the expense of the Assignee, execute such additional assignments and
other writings and do such additional acts as the Assignee may deem necessary or desirable to
perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in

In re Appln. of CHEN et al.
Attorney Docket No. 4437-21800

making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below.

Date DEC 11, 2014

Gang CHEN
Gang CHEN

Date _____

Wei LUO

Date _____

Congchao ZHU

In re Appln. of CHEN et al.
Attorney Docket No. 4437-21800

making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below.

Date _____

Gang CHEN

Date 12/12/2014

Wei LUO

Wei LUO

Date _____

Congchao ZHU

In re Appln. of CHEN et al.
Attorney Docket No. 4437-21800

making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, We have hereunder set our hands on the dates shown below.

Date _____

Gang CHEN

Date _____

Wei LUO

Date Dec 12, 2014

Congchao ZHU

Congchao ZHU