# 505945028 03/02/2020

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5991748

| SUBMISSION TYPE:     | NEW ASSIGNMENT |                |
|----------------------|----------------|----------------|
| NATURE OF CONVEYANCE | ASSIGNMENT     |                |
| CONVEYING PARTY DATA | l l            |                |
|                      | Name           | Execution Date |
| SIMON EKSTRAND       |                | 02/26/2020     |
| HANG LI              |                | 02/18/2020     |
| ZHIMING FAN          |                | 03/02/2020     |
| XUEYAN HUANG         |                | 05/07/2019     |
| ZEWEN LI             |                | 05/08/2019     |
| SHA QIAN             |                | 02/21/2020     |
| SHOUYU WANG          |                | 02/18/2020     |

| Name:             | Huawei Technologies Co., Ltd.  |
|-------------------|--------------------------------|
| Street Address:   | Huawei Administration Building |
| Internal Address: | Bantian, Longgang District     |
| City:             | Shenzhen, Guangdong            |
| State/Country:    | CHINA                          |
| Postal Code:      | 518129                         |

## **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 16351054 |

## CORRESPONDENCE DATA

| Fax Number:            | (312)                            | 616-5700  |
|------------------------|----------------------------------|---|
|                        |                                  | e-mail address first; if that is unsuccessful, it will be sent<br>nat is unsuccessful, it will be sent via US Mail. |
| Phone:                 | (312) 616-5600                   |   |
| Email:                 | assignments@leydig.com           |   |
| Correspondent Name:    | LEYDIG, VOIT & MAYER, LTD.       |   |
| Address Line 1:        | TWO PRUDENTIAL PLAZA, SUITE 4900 |   |
| Address Line 2:        | 180 NORTH STETSON AVENUE         |   |
| Address Line 4:        | CHICAGO, ILLINOIS 60601-6731     |   |
| ATTORNEY DOCKET NUMBER | 1:                               | HW742221  |
| NAME OF SUBMITTER:     |                                  | KAJAL AMIN  |
| SIGNATURE:             |                                  | /Kajal Amin/  |

| DATE SIGNED:                 | 03/02/2020 |
|------------------------------|------------|
| Total Attachments: 14        |            |
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| source=Assignment#page13.tif |            |
| source=Assignment#page14.tif |            |

#### WHEREAS, WE,

| Simon Ekstrand                | Hang Li   |
|-------------------------------|---|
| Ekgarden 241 92 Eslov Sweden; | Huawei Administration Building                            |
| and                           | Bantian, Longgang District                                |
|                               | Shenzhen, 518129, Guangdong                               |
|                               | P.R.CHINA; and  |
|                               | Bantian, Longgang District<br>Shenzhen, 518129, Guangdong |

Zhiming Fan Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

P.R.CHINA; and Sha Qian Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Bantian, Longgang District

Huawei Administration Building

Shenzhen, 518129, Guangdong

Xuevan Huang

Zewen Li

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Shouyu Wang Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA.

have invented and own a certain invention entitled:

#### INFORMATION DISPLAYING METHOD AND TERMINAL

for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on <u>2019-03-12</u>, under U.S. Application No. <u>16351054</u> and

WHEREAS, HUAWEI TECHNOLOGIES CO.,LTD., Huawei Administration Building 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

PATENT REEL: 051983 FRAME: 0136

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 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 26 FEB 2020 |                                       |
|------------------|---------------------------------------|
|                  | Simon Ekstrand                        |
| Date             |                                       |
|                  | Hang Li                               |
| Date             |                                       |
| Date             | Zhiming Fan                           |
| Date             |                                       |
|                  | Xueyan Huang                          |
| Date             |                                       |
|                  | Zewen Li                              |
| Date             | · · · · · · · · · · · · · · · · · · · |
|                  | Sha Qian                              |
| Date             |                                       |
|                  | Shouyu Wang                           |
|                  |                                       |

PATENT REEL: 051983 FRAME: 0137

 $\mathbf{2}$ 

#### WHEREAS, WE,

Zewen Li

P.R.CHINA; and

| Hang Li                        |
|--------------------------------|
| Huawei Administration Building |
| Bantian, Longgang District     |
| Shenzhen, 518129, Guangdong    |
| P.R.CHINA; and                 |
|                                |

Zhiming Fan Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Shenzhen, 518129, Guangdong P.R.CHINA; and Sha Qian Huawei Administration Building Huawei Administration Building Bantian, Longgang District Bantian, Longgang District Shenzhen, 518129, Guangdong Shenzhen, 518129, Guangdong P.R.CHINA; and

Xuevan Huang

Huawei Administration Building

Bantian, Longgang District

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| Date          |                |
|---------------|----------------|
|               | Simon Ekstrand |
| Date2020.2:18 | Fin<br>Hang Li |
| Date          | Zhiming Fan    |
| Date          | Xueyan Huang   |
| Date          | Zewen Li       |
| Date          | Sha Qian       |
| Date          | Shouyu Wang    |
|               |                |

PATENT

Attorney Docket No. HW742221 Client Reference No. 85099213US04

#### ASSIGNMENT

#### WHEREAS, WE,

Zewen Li

P.R.CHINA; and

| g Li                        |
|-----------------------------|
| wei Administration Building |
| tian, Longgang District     |
| nzhen, 518129, Guangdong    |
| CHINA; and                  |
| 1                           |

Zhiming Fan Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

P.R.CHINA; and Sha Qian Huawei Administration Building Huawei Administration Building Bantian, Longgang District Bantian, Longgang District Shenzhen, 518129, Guangdong Shenzhen, 518129, Guangdong P.R.CHINA; and

Xuevan Huang

Huawei Administration Building

Shenzhen, 518129, Guangdong

Bantian, Longgang District

Shouyu Wang Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA.

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1

In re Appln. of Ekstrand et al. Attorney Docket No. <u>HW742221</u>

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| Date            | Simon Ekstrand            |
|-----------------|---------------------------|
| Date            | Hang Li                   |
| Date 2020.03.02 | <i>換を祝</i><br>Zhiming Fan |
| Date            | Xueyan Huang              |
| Date            | Zewen Li                  |
| Date            | Sha Qian                  |
| Date            | Shouyu Wang               |

## PATENT

Attorney Docket No. <u>HW742221</u> Client Reference No. 85099213US04

#### ASSIGNMENT

#### WHEREAS, WE,

| Simon Ekstrand                | Hang Li                        |
|-------------------------------|--------------------------------|
| Ekgarden 241 92 Eslov Sweden; | Huawei Administration Building |
| and                           | Bantian, Longgang District     |
|                               | Shenzhen, 518129, Guangdong    |
|                               | P.R.CHINA; and                 |

Zhiming Fan Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

P.R.CHINA; and Sha Qian Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Huawei Administration Building

Shenzhen, 518129, Guangdong

Bantian, Longgang District

Xuevan Huang

Zewen Li

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

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| Date             | Simon Ekstrand               |
|------------------|------------------------------|
| Date             | Hang Li                      |
| Date             | Zhiming Fan                  |
| Date May 7, 2019 | Xueyan Huang<br>Xueyan Huang |
| Date             | Zewen Li                     |
|                  |                              |
| Date             | Sha Qian                     |
| Date             | Shouyu Wang                  |

#### WHEREAS, WE,

| Simon Ekstrand                | Hang Li                        |
|-------------------------------|--------------------------------|
| Ekgarden 241 92 Eslov Sweden; | Huawei Administration Building |
| and                           | Bantian, Longgang District     |
|                               | Shenzhen, 518129, Guangdong    |
|                               | P.R.CHINA; and                 |
|                               |                                |

Zhiming Fan Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

P.R.CHINA; and Sha Qian Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Bantian, Longgang District

Huawei Administration Building

Shenzhen, 518129, Guangdong

Xuevan Huang

Zewen Li Huawei Ad

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

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PATENT REEL: 051983 FRAME: 0144 In re Appln. of Ekstrand et al. Attorney Docket No. <u>HW742221</u>

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| Date           |                |
|----------------|----------------|
|                | Simon Ekstrand |
| D              |                |
| Date           | Hang Li        |
| Date           |                |
| 1893<br>. La   | Zhiming Fan    |
| Date           | Xueyan Huang   |
| Date2019.05.08 |                |
| Date           |                |
| · v            | Sha Qian       |
| Date           | Shouyu Wang    |
| ,              | onouya wang    |

2

#### WHEREAS, WE,

| Simon Ekstrand                | Hang Li                        |
|-------------------------------|--------------------------------|
| Ekgarden 241 92 Eslov Sweden; | Huawei Administration Building |
| and                           | Bantian, Longgang District     |
|                               | Shenzhen, 518129, Guangdong    |
|                               | P.R.CHINA; and                 |
|                               |                                |

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P.R.CHINA; and Sha Qian Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Bantian, Longgang District

Huawei Administration Building

Shenzhen, 518129, Guangdong

Xuevan Huang

Zewen Li

Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

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| Date             |                |
|------------------|----------------|
|                  | Simon Ekstrand |
|                  |                |
| Date             |                |
|                  | Hang Li        |
|                  |                |
| Date             | Zhiming Fan    |
|                  |                |
| Dete             |                |
| Date             | Xueyan Huang   |
|                  | , ,            |
| Date             |                |
|                  | Zewen Li       |
|                  | d A.           |
| Date 2020. 2. 21 | ShaQian        |
|                  | Sha Qian       |
|                  |                |
| Date             |                |
|                  | Shouyu Wang    |
|                  |                |

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| Simon Ekstrand                | Hang Li                        |
|-------------------------------|--------------------------------|
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| and                           | Bantian, Longgang District     |
|                               | Shenzhen, 518129, Guangdong    |
|                               | P.R.CHINA; and                 |
|                               |                                |

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Zewen Li Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

Shouyu Wang Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA. Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R.CHINA; and

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**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 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             | Simon Ekstrand        |
|------------------|-----------------------|
| Date             | Hang Li               |
| Date             | Zhiming Fan           |
| Date             | Xueyan Huang          |
| Date             | Zewen Li              |
| Date             | Sha Qian              |
| Date 2020, 2, 18 | J<br>J<br>Shouyu Wang |

PATENT REEL: 051983 FRAME: 0149