

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT4769199

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SIWOO LEE	01/08/2018
KWONSEUNG SHIN	01/08/2018
JEONGSEOB KIM	01/08/2018
YONGGIL HAN	01/08/2018
HYEONHO KIM	01/08/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAMSUNG ELECTRONICS CO., LTD.
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<b>City:</b>	GYEONGGI-DO
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15866791
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<b>ATTORNEY DOCKET NUMBER:</b>	5004-1-733
<b>NAME OF SUBMITTER:</b>	STEVE CHA
<b>SIGNATURE:</b>	/Steve Cha/
<b>DATE SIGNED:</b>	01/10/2018
<b>Total Attachments: 5</b>	
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### Assignment of Invention and Patent Application

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration,

- |                   |    |   |
|-------------------|----|---|
| 1) Siwoo LEE      | of | No. 110-303, 31, Indong 36-gil, Gumi-si, Gyeongsangbuk-do, Republic of Korea                      |
| 2) Kwonseung SHIN | of | No. 1009-1302, 45, Gwanggyohosugongwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea |
| 3) Jeongseob KIM  | of | No. 303-1302, 127, Janggi-ro, Dalseo-gu, Daegu, Republic of Korea                                 |
| 4) Yonggil HAN    | of | No. 505-902, 250-9, Indonggasan-ro, Gumi-si, Gyeongsangbuk-do, Republic of Korea                  |
| 5) Hyeonho KIM    | of | No. 102-1103, 31, Indong 36-gil, Gumi-si, Gyeongsangbuk-do, Republic of Korea                     |

(hereinafter Assignor) hereby sells, assigns, transfers, and sets over unto:

SAMSUNG ELECTRONICS CO., LTD. of  
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI, GYEONGGI-DO, 16677  
REPUBLIC OF KOREA

(hereinafter Assignee) the entire right, title and interest for the United States Of America and all other countries as defined in 35 U.S.C. Section 261, in and to the invention entitled as:

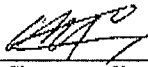
#### APPARATUS AND METHOD FOR CONTROLLING FINGERPRINT SENSOR

invented by Assignor; the application for United States patent and all other countries, invented by Assignor; any patent or reissues of any patent that may be granted thereon; and any applications which are continuations, continuation-in-part, substitutes, or divisions of said application. Assignor authorizes Assignee to enter the date of signature and/or Serial Number and Filing Date in the above. Assignor also authorizes and requests the Commissioner of Patents and Trademarks to issue any resulting patent(s) to the said Assignee, for its interests as Assignee, its successors, assigns and legal representatives. The undersigned agrees that the

attorney of record in said application shall hereafter act on behalf of said **Assignee**; and **Assignor** further conveys to **Assignee** all priority rights resulting from the above-identified application for United States Patent and all other countries. **Assignor** agrees to execute all papers, give any required testimony and perform other lawful acts, as deemed essential by **Assignee** to perfect **Assignee's** interest in any resulting patent of the United States and all other countries, and to acquire, hold, enforce, convey, and uphold the validity of said patent and reissues and extensions thereof, and **Assignee's** interest therein.

**SIGNED ON THE DATES(S) INDICATED BESIDE MY/OUR SIGNATURE(S):**

**Name of First Inventor: Siwoo LEE**

  
\_\_\_\_\_  
Signature of inventor

Dated: JAN. 08. 2018

WITNESSED: Eunbi CHO

**Name of Second Inventor: Kwonseung SHIN**

\_\_\_\_\_  
Signature of inventor

Dated: \_\_\_\_\_

WITNESSED: \_\_\_\_\_

**Name of Third Inventor: Jeongseob KIM**

\_\_\_\_\_  
Signature of inventor

Dated: \_\_\_\_\_

WITNESSED: \_\_\_\_\_

**Name of Fourth Inventor: Yonggil HAN**

\_\_\_\_\_  
Signature of inventor

Dated: \_\_\_\_\_

WITNESSED: \_\_\_\_\_

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**Name of First Inventor: Siwoo LEE**

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Signature of inventor

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WITNESSED: \_\_\_\_\_

**Name of Second Inventor: Kwonseung SHIN**

Kwonseung Shin  
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Signature of inventor

Dated: Jan. 8th, 2018

WITNESSED: Eunbi CHO

**Name of Third Inventor: Jeongseob KIM**

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Signature of inventor

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WITNESSED: \_\_\_\_\_

**Name of Fourth Inventor: Yonggil HAN**

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Signature of inventor

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**Name of First Inventor: Siwoo LEE**

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Signature of inventor

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**Name of Second Inventor: Kwonseung SHIN**

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Signature of inventor

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**Name of Third Inventor: Jeongseob KIM**

*Kim Jeong Seob*  
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Signature of inventor

Dated: JAN. 08. 2018

WITNESSED: Eunbi CHO

**Name of Fourth Inventor: Yonggil HAN**

*HAN Yonggil*  
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Signature of inventor

Dated: JAN. 08. 2018

WITNESSED: Eunbi CHO

Name of Fifth Inventor: Hyeonho KIM

  
Signature of inventor

Dated: JAN. 08, 2018

WITNESSED: Eunbi Cho