

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4729840

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
A-RAN CHA	10/27/2017
BYEONG-JUN KIM	10/27/2017
JAE-HYUN KIM	10/27/2017
NAM-IL LEE	10/27/2017
HYUN JO	10/30/2017
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<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15838726
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<b>NAME OF SUBMITTER:</b>	STEVE CHA
<b>SIGNATURE:</b>	/Steve Cha/
<b>DATE SIGNED:</b>	12/12/2017
<b>Total Attachments: 3</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) A-Ran CHA of  
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- 2) Byeong-Jun KIM of  
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- 3) Jae-Hyun KIM of  
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- 4) Nam-II LEE of  
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- 5) Hyun JO of  
#101-1902, Siheung Bervil APT., 23, Siheung-daero 77-gil, Geumcheon-gu,  
Seoul, 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 as defined in 35 U.S.C. Section 261, in and to the invention entitled as:

#### **ELECTRONIC DEVICE, STORAGE MEDIUM, AND METHOD OF PROCESSING AUDIO SIGNAL BY ELECTRONIC DEVICE**

invented by **Assignor**; the application for United States patent therefor, 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. **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 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:** A-Ran CHA

A Ran CHA

Signature of inventor

Dated: 2017. 10. 27

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

**Name of Second Inventor:** Byeong-Jun KIM

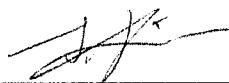
[Signature]

Signature of inventor

Dated: 2017. 10. 27

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


**Name of Third Inventor:** Jae-Hyun KIM

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

Dated: 2017.12.27

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


**Name of Fourth Inventor:** Nam-II LEE

  
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Signature of inventor

Dated: 2017.10.27

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

**Name of fifth Inventor:** Hyun JO

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

Dated: 2017.10.30th

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