## 505425993 04/12/2019

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5472784

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
HYUNWOO OCK		04/04/2019
SOONHYUNG GWON		04/04/2019
MINKYONG KIM		04/04/2019
TAN KIM		04/08/2019
CHANDRA ASHOK MALOO		04/08/2019
HYUNGSEON SONG		04/08/2019
DONGJUN SHIN		04/04/2019
HYEONGJOON SEO		04/05/2019
YOUNGJU JOO		04/04/2019

### **RECEIVING PARTY DATA**

Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU
City:	SUWON-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16383147

### **CORRESPONDENCE DATA**

Fax Number:

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.

Address Line 4:	WASHINGTON, D.C. 20036
Address Line 1:	1130 CONNECTICUT AVE., NW, SUITE 420
Correspondent Name:	JEFFERSON IP LAW, LLP
Email:	usdocketing@jeffersonip.com
Phone:	202-293-0804

ATTORNEY DOCKET NUMBER:	0503-0380
NAME OF SUBMITTER:	ROBERT Y RAHEJA

SIGNATURE:	/Robert Y RAHEJA/	
DATE SIGNED:	04/12/2019	
Total Attachments: 13		
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	ORM COVER SHEET	
To the Director of the U.S. Patent and Trademark Office: Please	se record the attached documents or the new address(es) below.	
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)	
1) Hyunwoo OCK, 2) Soonhyung GWON, 3) Minkyong KIM,	Name: Samsung Electronics Co., Ltd.	
4) Tan KIM, 5) Chandra Ashok MALOO, 6) Hyungseon SONG, 7) Dongjun SHIN, 8) Hyeongjoon SEO, and 9) Youngju JOO	Internal Address:	
Additional name(s) of conveying party(ies) attached? Yes 🗸 No 3. Nature of conveyance/Execution Date(s):	Street Address: <u>129, Samsung-ro, Yeongtong-gu</u>	
Execution Date(s) <u>04/04/2019</u> , <u>04/05/2019</u> and <u>04/08/2019</u>		
Assignment Merger	City: Suwon-si, Gyeonggi-do	
Security Agreement Change of Name		
Joint Research Agreement	State:	
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip: 16677	
Other     Other     Application or patent number(s):     This	Additional name(s) & address(es) attached? Yes Yes No document is being filed together with a new application.	
A. Patent Application No.(s) 16/383,147 Additional numbers at	B. Patent No.(s)	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: _One	
Name: Jefferson IP Law, LLP	<b>7. Total fee</b> (37 CFR 1.21(h) & 3.41) \$	
Internal Address: Robert Y. Raheja	<ul> <li>Authorized to be charged by credit card</li> <li>Authorized to be charged to deposit account</li> <li>Enclosed</li> <li>None required (government interest not affecting title)</li> </ul>	
Street Address: 1130 Connecticut Ave., NW, Suite 420		
City: Washington	8. Payment Information	
State: <u>DC</u> Zip: <u>20036</u>	a. Credit Card Last 4 Numbers Expiration Date	
Phone Number: 202-293-0804		
Fax Number: 202-403-3587	b. Deposit Account Number	
Email Address: usdocketing@jeffersonip.com	Authorized User Name	
9. Signature: /Robert Y. RAHEJA/ Reg. #	59,274 April 12, 2019	
Signature	Date	
Robert Y. Raheja	Total number of pages including cover 13	
Name of Person Signing	t) should be faxed to (571) 273-0140, or mailed to:	
	of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450	

### <u>Assignment</u>

WHEREAS, the following inventors, namely 1) Hyunwoo OCK, 2) Soonhyung GWON, 3) Minkyong KIM, 4) Tan KIM, 5) Chandra Ashok MALOO, 6) Hyungseon SONG, 7) Dongjun SHIN, 8) Hyeongjoon SEO, and 9) Youngju JOO (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

# SERVER, AIR CONDITIONER AND METHOD FOR CONTROLLING THEREOF,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on <u>April 12, 2019</u>, and assigned Serial No. <u>16/383,147</u>; and,

*WHEREAS*, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, 16677 (hereinafter called "Assignee"), is desirous of acquiring the entire right, title and interest therein;

NOW, THEREFORE, BE IT KNOWN that for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors do hereby sell, assign and transfer unto said Assignee the entire and exclusive worldwide right, title and interest in and to all said inventions and discoveries disclosed in said application, and in and to said application, any and all substitutions, divisions, provisionals, conversions of provisionals and continuations thereof, and in and to all Letters Patent, United States and all other foreign countries, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof; and the right to file any other foreign country application and/or claim priority under the provisions of any international treaty or convention arising from this application or any divisional, continuing, substitute or reissue application therefrom. The aforesaid assignment includes the right in and to all income, royalties, damages and payments, now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale, assignment and transfer had not been made.

Assignors covenant and agree, without further compensation to said Assignors but at Assignee's expense:

- a. to execute:
  - i. all papers to be used in connection with this application and any divisional, continuing, substitute or reissue application thereof, as the Assignee may deem necessary or expedient, and
  - ii. all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional,

continuing, substitute or reissue application thereof, as may be necessary or expedient;

- b. to cooperate with the Assignee in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof;
- c. to communicate to the Assignee any facts relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof, including evidence for any interference, litigation, mediation, arbitration or other proceeding relating to said invention, whenever requested;
- d. to testify in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof whenever requested; and
- e. to perform all other affirmative acts which may be necessary or desirable to secure full and complete protection of the inventions and discoveries or that may be necessary or desirable to vest in Assignee the complete title to the inventions and discoveries and Letters Patent hereby conveyed and to enable Assignee to record title.

Assignors hereby authorize and request the United States Patent and Trademark Office or any other issuing authority to issue any and all Letters Patent that may be granted upon this invention and/or this application or any divisional, continuing, substitute or reissue application thereof to the Assignee, its legal representatives, successors and assigns.

Assignors each hereby represents, covenants and warrants that he or she has the full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

The provisions of this Assignment are binding upon Assignors' heirs, legal representatives and/or administrators and assigns.

Assignors hereby grant to the law firm of Jefferson IP Law, LLP of Washington, DC and its attorneys and agents as associated with **Customer No. 68103** the authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

Signature of Inventor:

	Hyungscon SONG	Date
Signature of Inventor:		
Signature of Inventor:	Soonhyung GWON	Date
organitate of investor.	Minkyong KIM	Date
Signature of Inventor:		
	Tan KIM	Date
Signature of Inventor:	Chandra Ashok MALOO	Date
Signature of Inventor:		
	Dongjun SHIN	Date
Signature of Inventor:	Hyunwoo OCK	<u>5.018.4.4</u> Date
Signature of Inventor:		
	Hyeongjoon SEO	Date
Signature of Inventor:		
	Youngju JOO	Date

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  - all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional, continuing, substitute or reissue application thereof, as may be necessary or expedient;

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- b. to cooperate with the Assignee in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof;
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Signature of Inventor:		2019.4.8
Signature of Inventor:	Hyungseon SONG	Date
	Soonhyung GWON	Date
Signature of Inventor:	Minkyong KIM	Date
Signature of Inventor:	An	2019.4.8
Signature of Inventor:	Tan KIM freedow Chandra Ashok MALOO	Date 2019.04.08 Date
Signature of Inventor:	Ja-	2019.4.4
Signature of Inventor:	Dongjun SHIN Hyunwoo OCK	Date
Signature of Inventor:	Hyen G Jon G	<u>-2016_04_05</u> Daie
Signature of Inventor:	Youngfu JOO	<u>2019.04 04</u> Date

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Signature of Inventor:

	Hyungseon SONG	Date
Signature of Inventor:	권 훅 월 Soonhyung GWON	ـــــــــــــــــــــــــــــــــــــ
Signature of Inventor:		
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	Tan KIM	Date
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	Chandra Ashok MALOO	Date
Signature of Inventor:		
	Dongjun SHIN	Date
Signature of Inventor:		
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Signature of Inventor:		
	Hyeongjoon SEO	Date
Signature of Inventor:		
	Youngju JOO	Date

3

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Signature of Inventor: Hyungseon SONG Date Signature of Inventor: Soonhyung GWON Date 2 Signature of Inventor: 1 9,2019 Date Minkyong KI Signature of Inventor: Tan KIM Date Signature of Inventor: Date Chandra Ashok MALOO Signature of Inventor: Dongjun SHIN Date Signature of Inventor: Hyunwoo OCK Date Signature of Inventor: Hycongjoon SEO Date Signature of Inventor: Youngju JOO Date

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