#### 505871643 01/19/2020

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5918471

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
BYUNG SOO YUN	10/24/2019
HAN SOO KIM	11/14/2019
JUNG YEON KIM	10/24/2019
TAE KYUNG KANG	10/24/2019
DONG HUI KIM	10/24/2019
SANG WOO KANG	10/24/2019

#### **RECEIVING PARTY DATA**

Name:	COWAY CO., LTD.
Street Address:	136-23, YUGUMAGOKSA-RO
Internal Address:	YUGU-EUP, GONGJU-SI
City:	CHUNGCHEONGNAM-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	32508

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

Property Type	Number
Application Number:	16475890

#### **CORRESPONDENCE DATA**

Fax Number: (248)358-3351

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.

Phone: 2483584400

Email: dgreig@brookskushman.com

**Correspondent Name: BROOKS KUSHMAN** 1000 TOWN CENTER Address Line 1:

Address Line 2: 22ND FLOOR

Address Line 4: SOUTHFIELD, MICHIGAN 48075

ATTORNEY DOCKET NUMBER:	HNOL0127PUSA
NAME OF SUBMITTER:	JOHN E. NEMAZI
SIGNATURE:	/John E. Nemazi/
DATE SIGNED:	01/19/2020

PAIENI **REEL: 051551 FRAME: 0873** 505871643

This document serves as an Oath/Declaration (37 CFR 1.63).

#### **Total Attachments: 4**

source=HNOL0127PUSA\_Declaration\_Assignment#page1.tif

source=HNOL0127PUSA\_Declaration\_Assignment#page2.tif

source=HNOL0127PUSA\_Declaration\_Assignment#page3.tif

source=HNOL0127PUSA\_Declaration\_Assignment#page4.tif

PATENT REEL: 051551 FRAME: 0874

Attorney	Docket	HNOL0127PUSA	
Number		OPA17340-US	

## ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Attle of Invention	311	HORIZONTALLY						
As a below named	inventor, I here	by declare that:						
This declaration is	directed to:							
	The attached ap	plication, or						
	United States a filed on <u>Decem</u>	oplication or PCT international application number <u>PCT/KR2017/014998</u> ber 19, 2017.						
The above-identifi	ed application v	vas made or authorized to be made by me.						
I believe that I am	the original inv	entor or an original joint inventor of a claimed invention in the application.						
I hereby state that	I have reviewed	and understand the contents of the above-identified specification, including the claims.						
I am aware of the as defined in 37 C		to the U.S. Patent and Trademark Office all information known to me to be material to patentability						
over to COWAY business at 136-22 the ASSIGNEE, in the inventions and legal representative in its or their own successors, assign and discoveries in	CO. LTD., a condition of the condition o	and valuable consideration, receipt of which is hereby acknowledged, I do hereby assign, sell and set importation organized and existing under the laws of the state or country of <u>KR</u> , and having a place of a-ro. Yugu-eup. Gongiu-si. Chungcheongnam-do. 32508 Republic of Korea, hereinafter referred to assigns or other legal representatives, my entire right, title and interest, domestic and foreign, in and to the above-identified application including the right of said ASSIGNEE, its successors, assigns or other idations and to receive Letters Patent for said inventions and discoveries in any and all foreign countries, or in my name, at its or their election, and I hereby assign, sell and set over to said ASSIGNEE, its representatives, all rights of priority, including any provisional applications, in and to said inventions cluding all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, rissue applications.						
applications for Le	etters Patent of	ny heirs, successors, assigns or other legal representatives to execute any and all papers, including any and all kinds and in any and all countries and to perform any and all acts which said ASSIGNEE, all representatives may deem necessary to secure thereto the rights herein assigned, sold and set over.						
And I hereby repre	esent and warra	nt that I have not granted any rights inconsistent with the rights granted herein.						
hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both.								
LEGAL NAME C	FINVENTOR							
Inventor: Byen	19 S00 YUN	Date: 3-0/9. 10.25						
Signature:								
Page 1 (Suppleme	ntal Sheet with	Additional Joint Inventors is attached if necessary)						
Note: An Applicati	on Data Sheet (P	FO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.						

		ì																														
		ú																														

# SUPPLEMENTAL SHEET FOR ASSIGNMENT AND DECLARATION (37 C.E.R. 1.63) FOR LITLLITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.E.R. 1.76)

Additional Investors Page 2

Title of Invention	ROBOT PURIFIER CAPABLE OF F HORIZONTALLY	ROTATING VERTICALLY AND
Legal Name of Addition	al Joint Inventor:	
Interior (Barthers W.)		Date:2202224229
Service Co.		
Legal Name of Addition	al Joint Inventor:	
Beating Tag North N		Direction
Signature		
Legal Name of Addition	al Joint Inventor:	
Incomer Lackburg & St.	No.	Date
Service		
Legal Name of Addition	al Joint Inventor:	
Section Description		Date Commence of the Commence
September 1		
Legal Name of Addition	al Joint Inventor:	
nama sagata Sala	46.	inc
SHIRIN		

Attorney	Docket	HNOL0127PUSA
Number		OPA17340-US

## ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention	111	ROBOT PURIFIER CAPABLE OF ROTATING VERTICALLY AND HORIZONTALLY						
As a below named	inventor, I here	thy declare that:						
This declaration is	directed to:							
	The attached ap	plication, or						
		oplication or PCT international application number PCT/KR2017/014998						
The above-identifi	ed application v	vas made or authorized to be made by me.						
I believe that I am	the original inv	entor or an original joint inventor of a claimed invention in the application.						
I hereby state that	I have reviewed	and understand the contents of the above-identified specification, including the claims.						
I am aware of the as defined in 37 C.		to the U.S. Patent and Trademark Office all information known to me to be material to patentability						
business at 136-23 the ASSIGNEE, it the inventions and legal representative in its or their own successors, assigns and discoveries in divisionals, reexamples.	CO., LTD., a co. Yugumagoksi s successors, as discoveries in the sto make application or names or other legal all countries, in inations and re-	and valuable consideration, receipt of which is hereby acknowledged, I do hereby assign, sell and set opporation organized and existing under the laws of the state or country of <u>KR</u> , and having a place of a-ro. Yugu-cup. Gongju-si, Chungcheongnam-do, 32508 Republic of Korea, hereinafter referred to as signs or other legal representatives, my entire right, title and interest, domestic and foreign, in and to he above-identified application including the right of said ASSIGNEE, its successors, assigns or other ications and to receive Letters Patent for said inventions and discoveries in any and all foreign countries, or in my name, at its or their election, and I hereby assign, sell and set over to said ASSIGNEE, its representatives, all rights of priority, including any provisional applications, in and to said inventions cluding all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, rissue applications.						
applications for Le	tters Patent of	ny heirs, successors, assigns or other legal representatives to execute any and all papers, including any and all kinds and in any and all countries and to perform any and all acts which said ASSIGNEE, al representatives may deem necessary to secure thereto the rights herein assigned, sold and set over.						
And I hereby repre	sent and warra	nt that I have not granted any rights inconsistent with the rights granted herein.						
hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both.								
LEGAL NAME O	FINVENTOR							
Inventor: Byur	ig Soo YUN	Date: 3-0/9. 10.2.						
Signature:								
Page 1 (Suppleme	ntal Sheet with	Additional Joint Inventors is attached if necessary)						
Note: An Application	on Data Sheet (P	FO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.						

Attorney	Docket	HNOL0127PUSA
Number		OPA17340-US

SUPPLEMENTAL SHEET FOR ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)				Additional Inventors Page 2	
Title of Inve	ntion	ROBOT PURI HORIZONTA	FIER CAPABLE OF RO LLY	TATIN	NG VERTICALLY AND
Legal Name of Additional Joint Inventor:					
	Han Soo KIM			Date:	
Legal Name of Additional Joint Inventor:					
Inventor: Signature:	Jung Yeon KII	М		Date:	24. oct. 2019
Signatures					
Legal Name of Additional Joint Inventor:					
	Tae Kyung K			Date:	su, oct solf
Signature:	44Y X				
	C 2 3 3 3 4 7 4	X X 2 4 T			
Legal Nan	ie of Additio	nal Joint Invente	38.1		51 B. L. when 19
Inventor:	Dong Hui KIA	<u> </u>		Date:	24.0ct, 2019
Signature:	40				
			1		
Legal Name of Additional Joint Inventor:					71 71 - 13

PATENT ##9/20012000/9174 #/2019-10-24 15:56:29 REEL: 051551 FRAME: 0878

**RECORDED: 01/19/2020** 

Inventor:

Signature: