# 504157069 12/28/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4203743

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

# **CONVEYING PARTY DATA**

Name	Execution Date
DONG KYUE KIM	12/19/2016
BYONG DEOK CHOI	12/08/2016
KWANG HYUN JEE	12/21/2016

# **RECEIVING PARTY DATA**

Name:	ICTK CO., LTD.
Street Address:	3RD FLOOR, 323, PANGYO-RO, BUNDANG-GU, SEONGNAM-SI
City:	GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	463-400
Name:	IUCF-HYU (INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY)
Street Address:	222, WANGSIMNI-RO, SEONGDONG-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15302932

# **CORRESPONDENCE DATA**

**Fax Number:** (503)459-4142

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 5034594141

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Correspondent Name: ALLEMAN HALL MCCOY RUSSELL & TUTTLE LLP

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ATTORNEY DOCKET NUMBER:	MHN16314PCTUS
NAME OF SUBMITTER:	KAILEY BURRUS

PATENT 504157069 REEL: 040791 FRAME: 0584

SIGNATURE:	/Kailey Burrus/									
DATE SIGNED:	12/28/2016									
otal Attachments: 3										
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PATENT REEL: 040791 FRAME: 0585

#### ASSIGNMENT

WHEREAS, I've, the following named inventor(s):

- 1. Dong Kyne KIM, residing in Senai, Republic of Korea.
- Byong Deek CHOL residing in Senid, Republic of Korea, and
- 3. Kwang Hyun Ji C, residing in Gyeonggi-do, Republic of Korea.

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( ) on the date I we executed this assignment:
( ) as U.S. Patent Application No. PCT/KR2015-003577 filled April 9, 2015.

Two authorize the attorneys at Alterian Hall McCoy Russell & Tuttle LLP (Customer Number 50488) to insert the filling date and application number of said application when known.

WHEREAS, ICTX, CO., LTD., "Assignee"), a Korean corporation, having to principal place of business at 3rd Floor, 323, Pangyu-ro, Bundang-gu, Seongram-si, 463-400 Oyeonggi-do, Republic of Korea, and TUCF-HYU (INDUSTRY-UNIVERSITY COOPERATION PRUNDATION HANYANG UNIVERSITY) ("Assignee"), a Korean corporation, having its principal place of business at 322 Wangsimah-ro, Saongdong-gu, 133-791 Seoul, Republic of Korea, desire that ICTX CO., UTD., acquire a 50% undivided interest therein, and TUCF-HYU (INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY) acquire a 50% undivided interest therein, collectively acquireming the entire interest therein.

MOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby solonovledged. If we the above named inventor(s), have sold, assigned, and transferred, and by these presents do sell, assign, and transfer use. Assignees, ICTK CO., LTD., a respective 50% interest in the fail and exclusive right to the above-aboritied inventors in the United Sister and its extrinsial possessions and its foreign countries, and ILICE-HYU (INDUSTRY-LINIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY) a respective 50% interest in the entire right, title and interest in and to any and all Leners Patient which may be granted therefor in the United States and its territorial possessions and in any and all foreign consisters, and its and to any and still divisions, reissues, continuations and extensions thereof and all priority rights under all present or future conventions and resides, and any provisional applications for which priority is claimed.

If We hereby authorize and request the Patent Office officials in the United States and any and all foreign countries to issue any and all of said Levers Patent, when granted, to Assignees, as the assignees of my real entire right, oils and increatin and to the same, for the sole use of the Assignees, their successors and assignee.

Further, I we agree that I we will communicate to Assignees, or their representatives, any facts known to member especially said invention, and testify in any legal proceeding, sign all lauful papers, exercise all divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patert to be issued to Assignees, make all rightful oaths and generally do everything possible to aid Assignees, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, I we have hereunto set my our hand(s) on the dates indicated below.

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PATENT REEL: 040791 FRAME: 0586

#### ASSIGNMENT

WHEREAS, I/we, the following named inventor(s):

- 1. Dong Kyue KIM, residing in Seoul, Republic of Korea:
- 2. Byong Deok CHOI, residing in Seoul, Republic of Korea; and
- 3. Kwang Hyun JEE, residing in Gyeonggi-do, Republic of Korea;

have invented an invention entitled AUTHENTICATION APPARATU	IS AND METHOD, for which	į
I/we have executed an application for Letters Patent of the United States (c		
( ) on the date I/we executed this assignment;		
( ) as U.S. Patent Application No.	filed	
	filed April 9, 2015;	

I/we authorize the attorneys at Alleman Hall McCoy Russell & Tuttle LLP (Customer Number 50488) to insert the filing date and application number of said application when known.

WHEREAS, ICTK CO., LTD. ("Assignee"), a Korean corporation, having its principal place of business at 3rd Floor, 323, Pangyo-ro, Bundang-gu, Seongnam-si, 463-400 Gyeonggi-do, Republic of Korea, and IUCF-HYU (INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY) ("Assignee"), a Korean corporation, having its principal place of business at 222, Wangsimni-ro, Seongdong-gu, 133-791 Seoul, Republic of Korea, desire that ICTK CO., LTD., acquire a 50% undivided interest therein and IUCF-HYU (INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY) acquire a 50% undivided interest therein, collectively representing the entire interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/we, the above named inventor(s), have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto Assignees, ICTK CO., LTD., a respective 50% interest in the full and exclusive right to the above-identified invention in the United States and its territorial possessions and in all foreign countries, and IUCF-HYU (INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY) a respective 50% interest in the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries, and in and to any and all divisions, reissues, continuations and extensions thereof, and all priority rights under all present or future conventions and treaties, and any provisional applications for which priority is claimed.

I/We hereby authorize and request the Patent Office officials in the United States and any and all foreign countries to issue any and all of said Letters Patent, when granted, to Assignees, as the assignees of my/our entire right, title and interest in and to the same, for the sole use of the Assignees, their successors and assigns.

Further, I/we agree that I/we will communicate to Assignees, or their representatives, any facts known to me/us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to Assignees, make all rightful oaths and generally do everything possible to aid Assignees, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, I/we have hereunto set my/our hand(s) on the dates indicated below.

1. Inventor	Name:	Dong Kyue KIM	Signature:	Date:
			Signature:	Date: Dec. P. 20/6
3. Inventor	Name:	Kwang Hyun JEE	Signature:	Date:

Page 1 of 1 - ASSIGNMENT - Docket No. MHM16314PCTUS

### ASSIGNMENT

WHEREAS, I/we, the following named inventor(s):

- 1. Dong Kyue KIM, residing in Seoul, Republic of Korea;
- 2. Byong Deok CHOI, residing in Seoul, Republic of Korea; and
- 3. Kwang Hyun JEE, residing in Gyeonggi-do, Republic of Korea;

have	invented an	invention	entitled A	AUTHENTIC.	ATION	APPARAT	TUS AND	METHOD,	for '	which
I/we	have execute	ed an appli	cation for	Letters Patent	of the U	nited States	(check on	e):		

( ) on the date I/we executed this assignment;		
( ) as U.S. Patent Application No.	filed	
(X) as International Application No. PCT/KR2015/003577	, filed <u>April 9, 2015</u>	
Twe authorize the attorneys at Alleman Hall McCov Russel	1 & Tuttle I I P (Customer Numb	ser

I/we authorize the attorneys at Alleman Hall McCoy Russell & Tuttle LLP (Customer Number 50488) to insert the filing date and application number of said application when known.

WHEREAS, ICTK CO., LTD. ("Assignee"), a Korean corporation, having its principal place of business at 3rd Floor, 323, Pangyo-ro, Bundang-gu, Seongnam-si, 463-400 Gyeonggi-do, Republic of Korea, and IUCF-HYU (INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY) ("Assignee"), a Korean corporation, having its principal place of business at 222, Wangsimni-ro, Seongdong-gu, 133-791 Seoul, Republic of Korea, desire that ICTK CO., LTD., acquire a 50% undivided interest therein and IUCF-HYU (INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY) acquire a 50% undivided interest therein, collectively representing the entire interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/we, the above named inventor(s), have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto Assignees, ICTK CO., LTD., a respective 50% interest in the full and exclusive right to the above-identified invention in the United States and its territorial possessions and in all foreign countries, and IUCF-HYU (INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY) a respective 50% interest in the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries, and in and to any and all divisions, reissues, continuations and extensions thereof, and all priority rights under all present or future conventions and treaties, and any provisional applications for which priority is claimed.

I/We hereby authorize and request the Patent Office officials in the United States and any and all foreign countries to issue any and all of said Letters Patent, when granted, to Assignees, as the assignees of my/our entire right, title and interest in and to the same, for the sole use of the Assignees, their successors and assigns.

Further, I/we agree that I/we will communicate to Assignees, or their representatives, any facts known to me/us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to Assignees, make all rightful oaths and generally do everything possible to aid Assignees, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, I/we have hereunto set my/our hand(s) on the dates indicated below.

1.	Inventor Name:	Dong Kyue KIM	_Signature:		Date:
2.	Inventor Name:	Byong Deok CHOI	_Signature:		Date:
3.	Inventor Name:	Kwang Hyun JEE	Signature:	AMON .	Date: December 21, 2016

Page 1 of 1 – ASSIGNMENT – Docket No. MHM16314PCTUS

RECORDED: 12/28/2016

PATENT REEL: 040791 FRAME: 0588