

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4616633

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE	09/27/2017
INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY	09/27/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INDUSTRY-UNIVERSITY COOPERATION FOUNDATION HANYANG UNIVERSITY
<b>Street Address:</b>	222, WANGSIMNI-RO, SEONGDONG-GU
<b>City:</b>	SEOUL
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	04763
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	8687686
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)293-7860
<i>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.</i>	
<b>Phone:</b>	202-293-7060
<b>Email:</b>	sughrue@SUGHRUE.COM
<b>Correspondent Name:</b>	SUGHRUE MION, PLLC
<b>Address Line 1:</b>	2100 PENNSYLVANIA AVENUE, N.W.
<b>Address Line 2:</b>	SUITE 800
<b>Address Line 4:</b>	WASHINGTON, D.C. 20037
<b>ATTORNEY DOCKET NUMBER:</b>	0274-17
<b>NAME OF SUBMITTER:</b>	TONNIE L. BYARS
<b>SIGNATURE:</b>	/Tonnie L. Byars/
<b>DATE SIGNED:</b>	09/28/2017
<b>Total Attachments: 1</b>	
source=027417ExecutedAssignment#page1.tif	

## Assignment

Whereas, **Electronics and Telecommunications Research Institute** of 161, Gajeong-dong, Yuseong-gu, Daejeon 305-350, Republic of Korea, and **Industry-University Cooperation Foundation Hanyang University** of 17 Haengdang-dong, Seongdong-gu, Seoul 133-070, Republic of Korea, hereinafter referred to as "Assignor", are co-owners of the entire right, title and interest of United States Patent 8,687,686.

Whereas, **Industry-University Cooperation Foundation Hanyang University** of 222, Wangsinmi-ro, Seongdong-gu, Seoul 04763, Republic of Korea, hereinafter referred to as "Assignee", desires to acquire the entire ownership right, title, and interest of the Assignor in said United States Patent and the inventions disclosed therein, so the Assignee becomes the sole owner of the entire right, title and interest of said United States Patent and the inventions.

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged, the above named Assignor hereby sells, assigns and transfers to the above named Assignee, its successors and assigns, the entire right, title and interest in said United States Patent and the inventions, reissues and/or re-examinations thereof, together with all claims for damages by reason of past infringement, with the right of Assignee to sue for and collect the same for their own use and enjoyment.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment. The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

**Electronics and Telecommunications Research Institute**

Date: 27 Sep 2017

By: (signature) Yong-Sik Kwon

(name) Yong-Sik Kwon

(title) Director

**Industry-University Cooperation Foundation Hanyang University**

Date: 27 Sep 2017

By: (signature) [Signature]

(name) Lee Gool Chang

(title) General Manager