

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JUNGHYUN KWON	06/28/2016
RAMYA NARASIMHA	06/29/2016
EDWARD L. SCHWARTZ	06/28/2016
MAX MCFARLAND	06/30/2016
SILVIO SAVARESE	08/10/2016
KATHRIN BERKNER	06/29/2016
RECEIVING PARTY DATA	
Name:	RICOH COMPANY, LTD.
Street Address:	3-6 NAKAMAGOME, 1-CHOME
Internal Address:	OHTA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	143-8555
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16265149
CORRESPONDENCE DATA	
Fax Number:	(801)355-0160
<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>	
Phone:	8012589837
Email:	patents@patentlawworks.net
Correspondent Name:	PAIGE M. ALSBURY
Address Line 1:	310 EAST 4500 SOUTH, SUITE 400
Address Line 4:	SALT LAKE CITY, UTAH 84107
ATTORNEY DOCKET NUMBER:	10010-07909 US
NAME OF SUBMITTER:	PAIGE M. ALSBURY
SIGNATURE:	/Paige Alsbury/
DATE SIGNED:	03/15/2019

Total Attachments: 2

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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to **Ricoh Company, Ltd.**, a corporation of **Japan** having a place of business at **3-6 Nakamagome, 1-Chome, Ohta-ku, Tokyo, Japan 143-8555** ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional application filed under 35 U.S.C. § 111(b), non-provisional application filed under 35 U.S.C. § 111(a), international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"):

- Application No. 15/199,553, entitled "Hybrid Detection Recognition System," filed on June 30, 2016, and claims priority from a provisional application, filed on March 7, 2016, now bearing US Application No. 62/304,713.
- Application No. 13/967,288, entitled "Hybrid Detection Recognition System," filed on August 14, 2013.

2. The entire worldwide right, title, and interest in and to:
 (a) the APPLICATION; (b) all applications claiming priority from the APPLICATION;
 (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor,

Title: **HYBRID DETECTION RECOGNITION SYSTEM**
Filed: **June 30, 2016**
Application No.: **15/199,553**

assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

X DocuSigned by:

F1F6725EA73A4B6...
Junghyun Kwon 6/28/2016
Date of Signature

X DocuSigned by:

F3334988C21A41E...
Ramya Narasimha 6/29/2016
Date of Signature

X DocuSigned by:

64925B689655476...
Edward L. Schwartz 6/28/2016
Date of Signature

X DocuSigned by:

1A9FB017A54F4A1...
Max McFarland 6/30/2016
Date of Signature

X DocuSigned by:

C9961F0E9E044EF...
Silvio Savarese 8/10/2016
Date of Signature

X DocuSigned by:

EB13FA3BFC8B4F0...
Kathrin Berkner 6/29/2016
Date of Signature