#### 503279524 04/24/2015

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
SHUAI SHAO	04/22/2015
KEN GUDAN	04/22/2015
JONATHAN J. HULL	04/22/2015

# **RECEIVING PARTY DATA**

Name:	RICOH CO., LTD.
Street Address:	15-5 MINAMI AOYAMA 1-CHOME
Internal Address:	MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	107-8544

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

Property Type	Number
Application Number:	14584821

# **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	74451P242
NAME OF SUBMITTER:	MICHAEL J. MALLIE
SIGNATURE:	/Michael J. Mallie/
DATE SIGNED:	04/24/2015

**Total Attachments: 2** 

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> **PATENT** REEL: 035492 FRAME: 0716 503279524

ASSIGNMENT OF PATENT APPLICATION	Attorney Docket No.: 74451P242			
For good and valuable consideration, the receipt and sufficiency of which is hereby				
acknowledged, I/we, the undersigned, Shuai Shao; Ken G	udan; Jonathan J. Hull			
	,			
hereby sell, assign, and transfer to Ricoh Co., Ltd.				
a <u>Corporation</u> (Type of Assignee: e.g., corporation, company, partnership, university, e	of <u>Japan</u> ,			
having a principal place of business at 15-5 Minami Aoya	ma 1-Chome, Minato-Ku, Tokyo,			
107-8544 Japan				
("Assignee"), and its successors, assigns, and legal represe for the United States and all foreign countries, in and to any are disclosed in the application (provisional or non-provision the non-provisional application may have a declaration exec concurrently herewith and which application (provisional or re-	and all inventions or improvements that hall for the United States patent which for cuted by the undersigned prior hereto or			
MANUALLY BEAM STEERED PHASED ARRAY				
said patent application also identified as follows (when know	vn):			
[I/we hereby authorize an attorney or agent for said number and filing date of said patent application wh				
United States Patent Application Number <u>14/584,821</u>	filedDecember 29, 2014,			
and in and to said application (provisional or non-provisional provisional applications, utility applications, design applications applications, continued prosecution applications, continuated applications, renewal applications, reissue applications, reexpatent applications that have been or shall be filed in the Urrany of said inventions or improvements; and in and to all or reexamination certificates, and extensions, that have been all foreign countries on said inventions or improvements; and from the filing of said United States application;	ons, divisional applications, continuation on-in-part applications, substitute xaminations, extensions, and all other nited States and all foreign countries on iginal patents, reissued patents, or shall be issued in the United States and			
agree that said Assignee may apply for and receive improvements in its own name; and that, when requested, versaid Assignee, its successors, assigns, and legal represents and purpose of this Assignment, the undersigned will execut provisional applications, utility applications, design applications, continued prosecution applications, continuated applications, renewal applications, reissue applications, received applications on any and all said inventions or improve assignments, powers of attorney, and other papers; communications, and representatives all facts known to the undersign improvements and the history thereof; and generally assists.	without charge to, but at the expense of, atives, to carry out in good faith the intent ate all provisional applications, non-ons, divisional applications, continuation on-in-part applications, substitute xaminations, extensions, and all other ements; execute all rightful oaths, unicate to said Assignee, its successors, gned relating to said inventions or			

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PATENT REEL: 035492 FRAME: 0717 representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

Shuai Shao

Printed/Typed Name

Ken Gudan

Printed/Typed Name

Jonathan J. Hull

Printed/Typed Name

Assignment Document Return Address:

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