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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Sapna A. Shroff	02/16/2012
Kathrin Berkner	02/16/2012
Lingfei Meng	02/16/2012

RECEIVING PARTY DATA

Name:	Ricoh Co., Ltd.	
Street Address:	3-6, Nakamagome 1-Chome, Ohta-ku	
City:	Tokyo	
State/Country:	JAPAN	
Postal Code:	143-8555	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13398813	

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 20412-19822

NAME OF SUBMITTER: Michael W. Farn, Reg. No. 41015

Total Attachments: 3

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> PATENT REEL: 027800 FRAME: 0725

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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 Co.**, **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. <u>13/398,813</u>, entitled "Design and Optimization of Plenoptic Imaging Systems," filed on <u>February 16, 2012</u>.
 - 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, 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.

Title:	Design and Optimization	n of Plenoptic Imaging Systems
Filed: Application No.:	February 16, 2012 13/398,813	
	inal and all of which may	ed in one or more counterparts, each of which shall be taken together as one and the same Assignment. Date of Signature
Sapna A. Shro	· 	02/16/2012
State of		} }ss. }
personally appear the person whos executed the san person, or the en	red Sapna A. Shroff, who pename is subscribed to the was in his/her authorized capacitity upon behalf of which the under PENALTY OF PERJ	, Notary Public, proved to me on the basis of satisfactory evidence to be within instrument and acknowledged to me that he/she city, and that by his/her signature on the instrument the e person acted, executed the instrument. URY under the laws of the State of California that the
	SS my hand and official seal	•
		Notary
Name and Sign	ature	Date of Signature
	bles	02/16/2012
Kathrin Berkı	ier	
State of		} }ss.
County of		}

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing is true and correct.

WITNESS my hand and official seal.

Notary

Title: Filed: Application No.:	Design and Optimization of Plenor February 16, 2012 13/398,813	tic Imaging Systems			
Name and Signatur	My	Date of Signature $\frac{\sigma + 16 / 2 \circ 1}{}$			
State of	- } }ss. 				
On					
I certify under foregoing is true and		r the laws of the State of California that the			
WITNESS m	y hand and official seal.				
		Notary			

RECORDED: 03/02/2012