

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

|  |                                     |
|--|-------------------------------------|
| SUBMISSION TYPE:   | NEW ASSIGNMENT                      |
| NATURE OF CONVEYANCE:  | ASSIGNMENT                          |
| <b>CONVEYING PARTY DATA</b>  |                                     |
| <b>Name</b>  | <b>Execution Date</b>               |
| Pai-Hsueh Yang   | 07/08/2011                          |
| Scott Coakley  | 07/13/2011                          |
| Michael B. Binnard   | 06/23/2011                          |
| Kazuhiro Hirano  | 06/29/2011                          |
| Bausan Yuan  | 07/18/2011                          |
| Shiang-Lung Koo  | 06/17/2011                          |
| <b>RECEIVING PARTY DATA</b>  |                                     |
| Name:  | Nikon Corporation                   |
| Street Address:  | 12-1, Yurakucho 1-chome, Chiyoda-ku |
| City:  | Tokyo                               |
| State/Country:   | JAPAN                               |
| Postal Code:   | 100-8331                            |
| <b>PROPERTY NUMBERS Total: 1</b>   |                                     |
| <b>Property Type</b>   | <b>Number</b>                       |
| Application Number:  | 13110760                            |
| <b>CORRESPONDENCE DATA</b>   |                                     |
| Fax Number:  | (858)456-0744                       |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> |                                     |
| Phone:   | 858-456-1951                        |
| Email:   | khuff@rbiplaw.com                   |
| Correspondent Name:  | Steven G. Roeder                    |
| Address Line 1:  | 5560 Chelsea Avenue                 |
| Address Line 4:  | La Jolla, CALIFORNIA 92037          |
| ATTORNEY DOCKET NUMBER:  | 11269.190CONT                       |
| NAME OF SUBMITTER:   | Steven G. Roeder, Reg. No. 37,227   |

OP \$40.00 13110760

**501599738**

**PATENT**  
**REEL: 026615 FRAME: 0944**

**Total Attachments: 4**

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Form PTO-1595  
(Rev. 10-08)  
OMB No. 0651-0027 (exp. 11/30/2011)

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

PATENTS ONLY

Tab settings ⇄⇄⇄

To the Director of the U.S Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Pai-Hsueh Yang ( July 8, 2011)  
Scott Coakley ( July 13, 2011)  
Michael B. Binnard ( June 23, 2011)  
Kazuhiro Hirano ( June 29, 2011)  
Bausan Yuan (July 18, 2011)  
Shiang-Lung Koo (June 17, 2011)

Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)

Name: Nikon Corporation

Internal Address:

Street Address: 12-1, Yurakucho 1-chome,

Chiyoda-ku

City: Tokyo State: \_\_\_\_\_ Country: Japan Zip: 100-8331

Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): June 17 - July 18, 2011

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

4. Application number(s) or patent number(s):  This document is being filed together with a new application.

A. U.S. Patent Application No.(s) 13/110,760  
filed May 18, 2011

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Steven G. Roeder

Roeder & Broder LLP

Internal Address: \_\_\_\_\_

Street Address: 5560 Chelsea Avenue

City: La Jolla State: CA Zip: 92037

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) 3.41). . . . . \$ 40.00

- Enclosed
- Authorized to be charged to deposit account
- Authorized to be charged to credit card

8. Payment Information

- a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_
- b. Deposit Account number: 50-1141  
Authorized User Name Steven G. Roeder

9. Signature: /Steven G. Roeder/  
Signature

July 19, 2011  
Date

Steven G. Roeder, Reg. No. 37,227  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 4

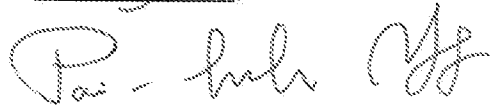
JOINT ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we, Pai-Hsueh Yang residing at 765 San Antonio Road, Unit 43, Palo Alto, CA 94303, United States; Scott Coakley residing at 1551 Winding Way, Belmont, CA 94002, United States; Michael B. Binnard residing at 2444 Coronet Boulevard, Belmont, CA 94002, United States; Kazuhiro Hirano residing at 1-13-13 Fujimi, Ageo, Saitama, Japan; Bausan Yuan residing at 1577 Elmar Way, San Jose, CA 95129, United States; and Shiang-Lung Koo residing at 40982 Fairmont Terrace, Fremont, CA 94538, United States; hereby sell, assign and transfer to Nikon Corporation, a Japanese corporation, having a place of business at 12-1, Yurakucho 1-chome, Chiyoda-ku, Tokyo 100-8331, Japan, its successors and assigns, the entire right, title and interest throughout the world in our invention in

METHOD FOR DETERMINING A COMMUTATION OFFSET AND  
FOR DETERMINING A COMPENSATION MAP FOR A STAGE

for which we filed a United States patent application no. 13/110,760 on May 18, 2011 and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this the 8<sup>th</sup> day of July, 2011.



\_\_\_\_\_  
Pai-Hsueh Yang

Executed this the 13<sup>th</sup> day of July, 2011.



\_\_\_\_\_  
Scott Coakley

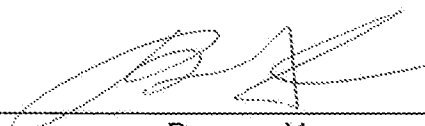
Executed this the 23 day of JUNE, 2011.

  
\_\_\_\_\_  
Michael B. Binnard

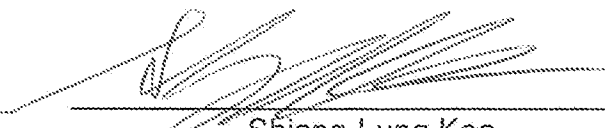
Executed this the \_\_\_\_\_ day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
Kazuhiro Hirano

Executed this the 18th day of July, 2011.

  
\_\_\_\_\_  
Bausan Yuan

Executed this the 17th day of June, 2011.

  
\_\_\_\_\_  
Shiang-Lung Koo

Executed this the \_\_\_\_\_ day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
Michael B. Binnard

Executed this the 29 day of June, 2011.

平野和弘

\_\_\_\_\_  
Kazuhiro Hirano

Executed this the \_\_\_\_\_ day of \_\_\_\_\_, 2011.

\_\_\_\_\_  
Shiang-Lung Koo