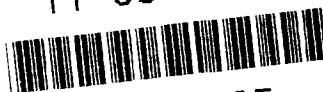


11-05-2004

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102876235

To the Honorable Commissioner of Patents and Trademark,

to record the attached original documents or copy thereof.

1. Name of conveying party(ies):

**Shree K. Nayar and Tomoo Mitsunaga**

Additional name(s) of conveying party(ies) attached?

☐ Yes

☒ No

2. Name and address of receiving party(ies)

Name: **The Trustees of Columbia University in the City of New York**

Address: 116th Street & Broadway

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

City: New York

State: NY

Zip: 10027

Additional name(s) and address(es) attached?

Country: USA

Execution Date: June 21, 2000; Oct. 21, 2004

☒ Yes ☐ No

4. Application number(s) or patent number(s)

If this document is being filed together with a new application, the execution date of the application is

A. Patent Application No.(s)

**09/326,422**

B. Patent No.(s)

Additional numbers attached?

☐ Yes

☒ No

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

Name:

**BAKER BOTTS L.L.P.**

**30 Rockefeller Plaza - 44 Fl.**

**New York, NY 10112**

6. Total number of applications and patents involved: 1

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

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number :

02-4377 (Charge any additional fees to this account)

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9. Statement and signature

*To the best of my knowledge and belief, the foregoing instrumentation is true and correct and any attached copy is a true copy of the original document.*

**Manu J. Tejwani, PTO#37,952**

Name of Person Signing

Signature

**10-28-2004**

Date

Page 1 of 2

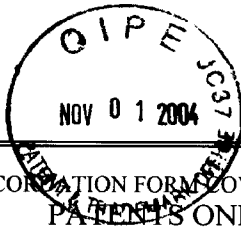
Total number of pages including cover sheet, attachments and document: Six (6)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

10. Additional Names of assigning party(ies):

10a. Additional Names of receiving party(ies):

2. CONTINUED - Name and address of additional receiving party(ies)

SONY CORPORATION  
6-7-35, Kitashinagawa  
Shinagawa, Tokyo, 141-0001  
Japan

11. Application number(s) or registration number(s):

A. Patent Application No.(s)

B. Patent Registration No.(s)

Page 2 of 2

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Mail documents to be recorded with required cover sheet information to:

**Commissioner of Patents and Trademarks**  
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**Alexandria, VA 22313-1450**

A S S I G N M E N T

WHEREAS, I, SHREE K. NAYAR a citizen of the United States, residing at 560 Riverside Drive, Apt. 5D, New York, New York 10027, have respectively made an invention entitled "APPARATUS AND METHOD FOR HIGH DYNAMIC RANGE IMAGING USING SPATIALLY VARYING EXPOSURES" as set forth and described in U.S. Letters Patent application Serial No. 09/326,422, filed June 4, 1999; and

WHEREAS, THE TRUSTEES OF COLUMBIA IN THE CITY OF NEW YORK (hereinafter "COLUMBIA"), having its principal place of business at 116th Street & Broadway, New York, New York 10027, is desirous of acquiring the whole right, title and interest in and to said U.S. Letters Patent and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

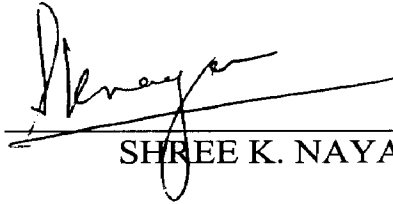
NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that I, the said SHREE K. NAYAR, for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to me in hand paid by said COLUMBIA, and other valuable considerations unto me moving from said COLUMBIA, at or before the ensealing and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said COLUMBIA, its successors and assigns, the entire right, title and interest in and to the said invention for which have made application for Letters Patent of the United States entitled "APPARATUS AND METHOD FOR HIGH DYNAMIC RANGE IMAGING USING SPATIALLY VARYING EXPOSURES" as set forth and described in U.S. Letters Patent application Serial No. 09/326,422, filed June 4, 1999, and any and all improvements thereon, and in and to said provisional application and any application claiming priority therefrom, and any non-provisional application, division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND I, the said SHREE K. NAYAR, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said COLUMBIA, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said COLUMBIA, its successors and assigns;

AND I, the said SHREE K. NAYAR, for the considerations aforesaid, do hereby covenant and agree to and with said COLUMBIA, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or

administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said COLUMBIA, its successors and assigns, may be required or necessary to more effectively secure to and vest in said COLUMBIA, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that We will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

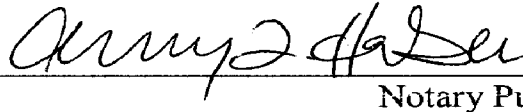
IN WITNESS WHEREOF, I, the said SHREE K. NAYAR have hereunto set our hands and seals on the date below written.



SHREE K. NAYAR

STATE OF NY )  
COUNTY OF NY ) :ss:

BE IT KNOWN, that on this 21<sup>st</sup> day of October, 2004, before me personally came SHREE K. NAYAR, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.



Notary Public

AMY L. HABER  
NOTARY PUBLIC, State of New York  
No. 01HA5063858  
Qualified in Queens County  
Commission Expires July 29, 2006

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PATENT

### ASSIGNMENT

WHEREAS, I, TOMOO MITSUNAGA, a citizen of Japan, residing in Kawasaki City, Japan, whose post office address is 1-9-3-403, Hisamoto, Takatsu, Kawasaki City, Kanagawa Prefecture, Japan 213-0011, have made an invention entitled "APPARATUS AND METHOD FOR HIGH DYNAMIC RANGE IMAGING USING SPATIALLY VARYING EXPOSURES" as set forth and described in the application for Letters Patent of the United States, Serial No. 09/326,422, filed June 4, 1999; and

WHEREAS, SONY CORPORATION (hereinafter "SONY"), having its principal place of business at 6-7-35, Kitashinagawa, Shinagawa, Tokyo, 141-0001 Japan, is desirous of acquiring the whole right, title and interest in and to said application for Letters Patent, and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that I, the said TOMOO MITSUNAGA, for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to me in hand paid by said SONY, and other valuable considerations unto me moving from said SONY, at or before the enrolling and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said SONY, its successors and assigns, the entire right, title and interest in and to the said invention entitled "APPARATUS AND METHOD FOR HIGH DYNAMIC RANGE IMAGING USING SPATIALLY VARYING EXPOSURES," as set forth and described in application for Letters Patent, Serial No. 9/326,422, filed June 4, 1999, and any and all improvements thereon, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND I, the said TOMOO MITSUNAGA, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said SONY, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said SONY, its successors and assigns;

AND I, the said TOMOO MITSUNAGA, for the considerations aforesaid, do hereby covenant and agree to and with said SONY, its successors and assigns, that I have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or

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See Above  
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right heretofore given, and that I, my executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said SONY, its successors and assigns, may be required or necessary more effectively to secure to and vest in said SONY, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that I will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

IN WITNESS WHEREOF, I, the said TOMOO MITSUNAGA, have hereunto set my hand and seal this 21<sup>st</sup> day of June, 2000.

  
TOMOO MITSUNAGA

Witnessed by:

  
Hiromi Morikaku

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