

Form PTO-1595 (Rev. 07/05)  
OMB No. 0651-0027 (exp. 6/30/2008)U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

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**1. Name of conveying party(ies)**Tao ZHAO (03/16/2006)  
Manoj AGGARWAL (03/21/2006)  
Rakesh KUMAR (03/16/2006)  
Harpreet SAWHNEY (03/30/2006)Additional name(s) of conveying party(ies) attached? ☐ Yes ☐ No**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) See Box 1 (conveying parties)

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other

**2. Name and address of receiving party(ies)**Name: SARNOFF CORPORATION

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

Street Address: 201 Washington RoadCity: PrincetonState: New JerseyCountry: U.S.A. Zip: 08540-6449Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**

A. Patent Application No.(s)

11/314,954

☐ This document is being filed together with a new application.  
B. Patent No.(s)Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Docket Administrator (18703-595)Internal Address: Lowenstein Sandler P.C.Street Address: 65 Livingston AvenueCity: RoselandState: New Jersey Zip: 07068Phone Number: 973.597.2500Fax Number: 973.597.2400

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved: 1****7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00**

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_b. Deposit Account Number 501358  
Authorized User Name Daniel D. Sierchio**9. Signature:** Daniel D. Sierchio

Signature

April 7, 2006

Date

Daniel D. Sierchio, Reg. No.: 53,591

Name of Person Signing

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

6

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 501358 11314954

700256821

**PATENT**  
**REEL: 017456 FRAME: 0198**

Attorney Docket No.: 18703-595

**ASSIGNMENT**

**WHEREAS, WE, Tao ZHAO** (citizen of the People's Republic of China), **Manoj AGGARWAL** (citizen of India), **Rakesh KUMAR** (citizen of India) and **Harpreet SAWHNEY** (citizen of the United States of America) (collectively "ASSIGNOR") residing at, 2702 Pheasant Hollow Drive, Plainsboro, New Jersey 08536, 1 Flanigan Street, Lawrenceville, NJ 08648, 10 Jeffrey Lane, West Windsor, New Jersey 08550 and 17 Melville Road, West Windsor, New Jersey 08550, respectively, have invented, developed, and/or have rights in the invention(s) ("THE INVENTION(S)") disclosed in United States Non-Provisional Patent Application Serial No. 11/314,954, filed December 21, 2005 (the "Patent");

**AND WHEREAS** Sarnoff Corporation ("ASSIGNEE"), a corporation having a place of business at 201 Washington Road, Princeton, New Jersey 08540-6449, desires to acquire the entire right, title, and interest in and to THE INVENTION(S) and in and to the Patent;

**NOW, THEREFORE**, in consideration of the sum of one dollar (\$1.00) in hand and/or other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to ASSIGNEE the entire right, title and interest in and to THE INVENTION(S) and the Patent and all patents and patent applications claiming priority to and/or benefit of the Patent including divisions, continuations, and continuations-in-part thereof and all reissues, reexaminations, and extensions thereof, and all priority rights under the International Convention for the Protection of Industrial Property for every member country, and all applications for patents (including related rights such as utility-model registrations, registrations, inventor's certificates, and the like) heretofore or hereafter filed for THE INVENTION(S) in any foreign country/countries, and all patents (including all extensions, renewals and reissues thereof) granted for THE INVENTION(S) and the Patent in any foreign country/countries;

**AND WE HEREBY** authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty is to issue the patent on an application as aforesaid, to issue the patent for THE INVENTION(S) and/or the Patent in the name of ASSIGNEE in accordance with the terms of this assignment;

**AND WE HEREBY** covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith;

**AND WE HEREBY** further covenant and agree that we will communicate to ASSIGNEE any facts known to us respecting THE INVENTION(S) and the Patent, sign all lawful papers, execute all divisional, continuation, continuations-in-part, substitute, reexamination, and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for THE INVENTION(S) and the Patent.

--- SIGNATURES BEGIN ON NEXT PAGE ---

In testimony whereof, I hereunto set my hand this 16 day of March, 2006.

Zhao

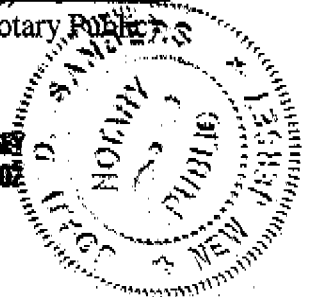
Tao ZHAO

STATE OF New Jersey)  
COUNTY OF Mercer) SS:

On March 16, 2006, before the undersigned, a Notary Public for the State and County aforesaid, personally appeared **Tao ZHAO**, known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he executed the same.

Joan D. Sanders  
(Notary Public)

JOAN D. SANDERS  
NOTARY PUBLIC OF NEW JERSEY  
Commission Expires 1/31/2007

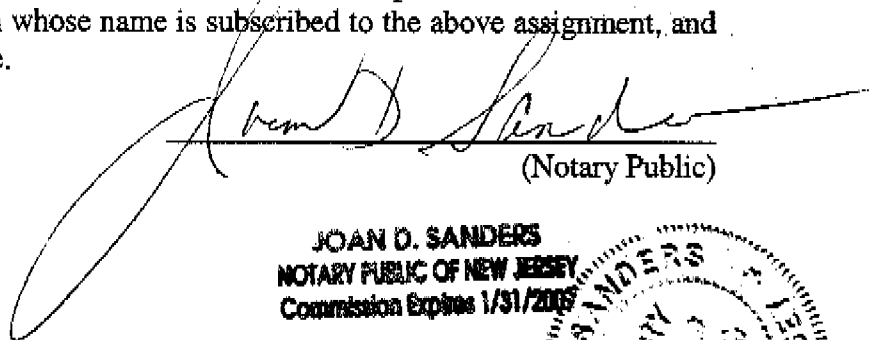


In testimony whereof, I hereunto set my hand this 21 day of March, 2006.

  
Manoj AGGARWAL

STATE OF New Jersey )  
COUNTY OF Mercer ) SS:

On March 21, 2006, before the undersigned, a Notary Public for the State and County aforesaid, personally appeared **Manoj AGGARWAL**, known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he executed the same.

  
(Notary Public)

JOAN D. SANDERS  
NOTARY PUBLIC OF NEW JERSEY  
Commission Expires 1/31/2009



In testimony whereof, I hereunto set my hand this 16 day of 2006, 2006.

Rakesh Kumar

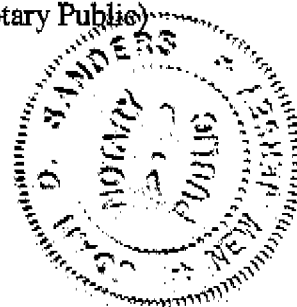
**Rakesh KUMAR**

STATE OF New Jersey )  
COUNTY OF Merger ) SS:

On March 16, 2006, before the undersigned, a Notary Public for the State and County aforesaid, personally appeared **Rakesh KUMAR**, known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he executed the same.

Joan D. Sanders  
(Notary Public)

**JOAN D. SANDERS**  
NOTARY PUBLIC OF NEW JERSEY  
Commission Expires 1/31/2007



In testimony whereof, I hereunto set my hand this 30th day of March, 2006.

Harpreet SAWHNEY  
Harpreet SAWHNEY

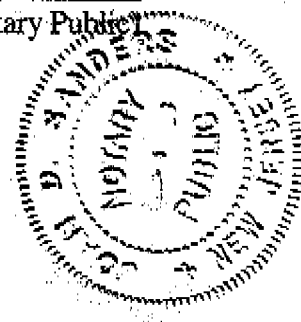
STATE OF New Jersey

COUNTY OF Mersey SS:

On March 30, 2006, before the undersigned, a Notary Public for the State and County aforesaid, personally appeared **Harpreet SAWHNEY**, known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the above assignment, and acknowledged that he executed the same.

Joan D. Sanders  
(Notary Public)

JOAN D. SANDERS  
NOTARY PUBLIC OF NEW JERSEY  
Commission Expires 1/31/2007



PTO/SB/97 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

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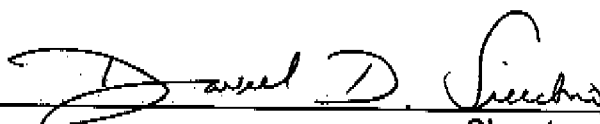
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Daniel D. Sierchio (18703-595)

Typed or printed name of person signing Certificate

53.591

Registration Number, if applicable

973-597-2500

Telephone Number

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LOWENSTEIN SANDLER PC  
*Attorneys at Law*

65 Livingston Avenue  
Roseland, NJ  
07068-1791



Tel 973.597.2500  
Fax 973.597.2400  
www.lowenstein.com

**FACSIMILE COVER SHEET**

FROM: **Daniel D. Sierchio, Reg. No. 53,591**  
**Re: U.S. Patent No. 11/314,954**

Date **April 7, 2006**

TEL: **973-597-2500** FAX: **973-597-2400**

E-MAIL: **dsierchio@lowenstein.com**

TO: **Mail Stop Assignment Recordation Services**  
**United States Patent and Trademark Office**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

FACSIMILE NO.: **571-273-0140**  
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CLIENT ID/MATTER #: **18703-595**

**If you have any trouble with this transmittal, please call 973.597.2500 ext. 2167**

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18703/595  
04/07/2006 1879316.01

**PATENT**  
**REEL: 017456 FRAME: 0205**



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U.S. DEPARTMENT OF COMMERCE  
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State: New Jersey

Country: U.S.A.

Zip: 08540-6449

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

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Additional numbers attached? ☐ Yes ☒ No

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Name: Docket Administrator (18703-595)

Internal Address: Lowenstein Sandler P.C.

Street Address: 65 Livingston Avenue

City: Roseland

State: New Jersey Zip: 07068

Phone Number: 973.597.2500

Fax Number: 973.597.2400

Email Address: \_\_\_\_\_

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☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

### 8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 501358

Authorized User Name Daniel D. Sierchio

9. Signature: Daniel D. Sierchio

Signature

April 7, 2006

Date

Daniel D. Sierchio Reg. No.: 53,591

Name of Person Signing

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

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