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Docket No.: SAR 14423

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HEET

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

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

## 1. Name of conveying party(ies):

Liyou Yang  
Ralph Doud Whaley, Jr.  
Tien Pei Lee

7/30/02

## 2. Name and address of receiving party(ies)

Name: Sarnoff Corporation

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

201 Washington Road

Street Address: \_\_\_\_\_

City: PrincetonState: NJZip: 08543Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

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

Execution Date: 7/15/02 & 7/19/02Additional name(s) & address(es) attached? ☐ 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)

10/134,672Filed 4/26/02

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Jonathan M. Darcy

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

Reed Smith, LLP1650 Market StreetStreet Address: 1 Liberty PlaceCity: Philadelphia State: PA Zip: 191036. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00

- ☐ Enclosed
- ☒ Authorized to be charged to deposit account

## 8. Deposit account number:

04-0203

(Attach duplicate copy of this page if paying by deposit account)

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## 9. Statement and signature.

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

Abhik A. Heng

Name of Person Signing

Abhik A. Heng

Signature

Date

4

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

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

PATENT

REEL: 013147 FRAME: 0414

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08/06/2002

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ASSIGNMENT

I hereby declare that I am an inventor of the invention relating to a **PHOTONIC INTEGRATED CIRCUIT (PIC) AND METHOD FOR MAKING SAME** described in an application for Letters Patent of the United States of America filed:

- [ ] herewith under the above-identified docket number.
- [ X ] on April 26, 2002, under U.S. application serial no. 10/134,672.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby sell, assign, and transfer to **SARNOFF CORPORATION**, a New Jersey corporation having a place of business at 201 Washington Road, Princeton, NJ 08540-6449, United States of America, their successors, and assigns, my entire right, title, and interest for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues, and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns, or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and, when requested by said corporation and at its expense, will generally do everything possible to aid said corporation, its successors, assigns, and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns, or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claims such right of priority without further written oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file, or like document which may be required in any country for any purpose and, more particularly, in proof of the right of said corporation or its successors, assigns, or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with said corporation, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge, the right, title, and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Date: 7/15/02

By: Liyou Yang  
Liyou Yang  
3 Barley Ct.  
Plainsboro, NJ 08536

1<sup>st</sup> Witness Tan Sanders  
(print or type)

[Signature]  
(signature)

2<sup>nd</sup> Witness \_\_\_\_\_  
(print or type)

\_\_\_\_\_  
(signature)

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Ralph Doud Whaley, Jr.  
47 North Mill Road  
Princeton Junction, NJ 08550

1<sup>st</sup> Witness \_\_\_\_\_  
(print or type)

\_\_\_\_\_  
(signature)

2<sup>nd</sup> Witness \_\_\_\_\_  
(print or type)

\_\_\_\_\_  
(signature)

Date: 7/19/2002

By: Tien Pei Lee  
Tien Pei Lee  
5 Marion Drive  
Holmdel, NJ 07733

1<sup>st</sup> Witness Josephine Lee  
(print or type)

[Signature]  
(signature)

2<sup>nd</sup> Witness \_\_\_\_\_  
(print or type)

\_\_\_\_\_  
(signature)

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I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns, or nominees.

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I authorize and empower said corporation, its successors, assigns, or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claims such right of priority without further written oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file, or like document which may be required in any country for any purpose and, more particularly, in proof of the right of said corporation or its successors, assigns, or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

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Date: 7/15/02

By: Liyu Yang  
Liyu Yang  
3 Barley Ct.  
Plainsboro, NJ 08536

1<sup>st</sup> Witness Joan Sanders  
(print or type)

[Signature]  
(signature)

2<sup>nd</sup> Witness \_\_\_\_\_  
(print or type)

\_\_\_\_\_  
(signature)

Date: 7/15/2002

By: Ralph Doud Whaley, Jr.  
Ralph Doud Whaley, Jr.  
47 North Mill Road  
Princeton Junction, NJ 08550

1<sup>st</sup> Witness Joan Sanders  
(print or type)

[Signature]  
(signature)

2<sup>nd</sup> Witness \_\_\_\_\_  
(print or type)

\_\_\_\_\_  
(signature)

Date: \_\_\_\_\_

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Tien Pei Lee  
5 Marion Drive  
Holmdel, NJ 07733

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(signature)

2<sup>nd</sup> Witness \_\_\_\_\_  
(print or type)

\_\_\_\_\_  
(signature)