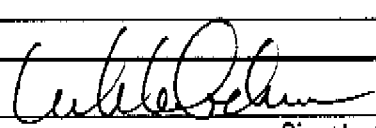


Form PTO-1595 (Rev. 08/05)
OMB No. 0651-0027 (exp. 6/30/2008)

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

RECORDATION FORM COVER SHEET PATENTS ONLY	
Document ID No.: 103053887	
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) AJAY KUMAR Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies) Name: <u>NATIONAL SEMICONDUCTOR CORPORATION</u> Internal Address: _____ _____ Street Address: <u>2900 SEMICONDUCTOR DRIVE</u> _____ City: <u>SANTA CLARA</u> State: <u>CA</u> Country: _____ Zip: <u>95051</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance/Execution Date(s): Execution Date(s) <u>7/26/2005</u> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____	4. Application or patent number(s): A. Patent Application No.(s) <u>11/190,215</u> B. Patent No.(s) _____ This document is being filed together with a new application. <input type="checkbox"/> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Name and address to whom correspondence concerning document should be mailed: Name: <u>William W. Cochran</u> <u>Cochran Freund & Young LLC</u> Internal Address: _____ _____ Street Address: <u>2026 Caribou Drive, Suite 201</u> _____ City: <u>Fort Collins</u> State: <u>CO</u> Zip: <u>80525</u> Phone Number: <u>970-492-1100</u> Fax Number: <u>970-492-1101</u> Email Address: _____	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 1.21(h) & 3.41) \$ _____ <input type="checkbox"/> Authorized to be charged by credit card <input type="checkbox"/> Authorized to be charged to deposit account <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)
9. Signature:  _____ Signature William W. Cochran Name of Person Signing	8. Payment Information a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number _____ Authorized User Name _____ Date <u>12/20/05</u> Total number of pages including cover sheet, attachments, and documents: 2

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

Form PTO-1595 (Rev. 03/05)
OMB No. 0651-0027 (exp. 8/30/2005)

08-03-2005

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



103053887

To the Director of the U.S. Patent and

or the new address(es) below.

1. Name of conveying party(ies)
AJAY KUMAR

2. Name and address of receiving party(ies)

Name: NATIONAL SEMICONDUCTOR CORPORATION

Internal Address: _____

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

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

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

Street Address: 2900 Semiconductor Driv

City: SANTA CLARA

State: CA

Country: _____ Zip: 95051

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

4. Application or patent number(s):

A. Patent Application No.(s)

☒ 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: William W. Cochran

Cochran Freund & Young LLC

Internal Address: _____

Street Address: 2026 Caribou Drive, Suite 201

City: Fort Collins

State: CO

Zip: 80525

Phone Number: 970-492-1100

Fax Number: 970-492-1101

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 _____

Authorized User Name _____

9. Signature: _____

Signature

Date

26 July 05

William W. Cochran

Name of Person Signing

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

2

Documents to be recorded (including cover sheet) should be faxed to (703) 308-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

07/29/2005 ENAILE1 00000005 11190215

04 FC:8021

40.00 CP

PATENT
REEL: 017135 FRAME: 0491

JUL-26-2005 13:56

GA TECH ECE

4048944641 P.02/03

When recorded please return to:
 Cochran Freund & Young LLC
 2026 Caribon Drive, Suite 201
 Fort Collins, CO 80525

PATENT APPLICATION
 DOCKET NO.: NSC.03US01 (PO6291)

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to National Semiconductor Corporation (hereinafter Assignee), for good and valuable consideration, receipt of which is hereby acknowledged, and do hereby sell, assign and transfer to Assignee, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Letters Patent of the United States entitled:

PRECISION BANDGAP CIRCUIT USING HIGH TEMPERATURE COEFFICIENT DIFFUSION RESISTOR IN A CMOS PROCESS

Filing date: _____ Serial No.: _____
 and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Letter Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, and any reissues, or reexaminations, or extensions of said Letters Patent.

I/We additionally authorize Assignee to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to Assignee, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to Assignee or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Assignee.

AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to Assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct Assignee's attorneys to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

Akumar
 Inventor's Signature (Seal)
 Inventor's Typed Name: Ajay Kumar

Date Assignment Signed: 07/26/05

State of Georgia)
) ss.:
 County of Fulton)

Before me this 26th day of July, 2005, personally appeared Ajay Kumar who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

Sherrie Cooper
 Notary Public

My commission expires: _____

SHERRIE COOPER
 NOTARY PUBLIC, FULTON COUNTY, GEORGIA
 MY COMMISSION EXPIRES MARCH 24, 2008

PATENT

REEL: 017135 FRAME: 0492

Form PTO-1595 (Rev. 03/05)
OMB No. 0651-0027 (exp. 6/30/2005)

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

RECORDATION FORM COVER SHEET PATENTS ONLY

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)
AJAY KUMAR

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

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

- ☒ 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: NATIONAL SEMICONDUCTOR CORPORATION

Internal Address: _____

Street Address: 2900 Semiconductor Driv

City: SANTA CLARA

State: CA

Country: _____ Zip: 95051

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

112949 U.S. PTO
11/190215

4. Application or patent number(s):
A. Patent Application No.(s) _____

☒ 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: William W. Cochran

Cochran Freund & Young LLC

Internal Address: _____

Street Address: 2026 Caribou Drive, Suite 201

City: Fort Collins

State: CO Zip: 80525

Phone Number: 970-492-1100

Fax Number: 970-492-1101

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 _____

Authorized User Name _____

9. Signature: William W. Cochran Signature

26 July 05
Date

William W. Cochran
Name of Person Signing

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

2

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450