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HEET

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To the Director of the U.S. Patent and Trademark Office: Please record the attached document(s)

831-05

<b>1. Name of conveying party(ies):</b> Constantin Bulucea William D. French Donald M. Archer Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>2. Name and address of receiving party(ies):</b> Name: National Semiconductor Corporation Internal Address: Street Address: 2900 Semiconductor Drive City: Santa Clara State: California Country: U.S.A Zip: 95051 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>3. Nature of Conveyance/Execution Date(s):</b> Execution Date(s): 12 June 2009, 18 June 2009 and 19 June 2009 <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other			
<b>4. Application number(s) or patent number(s):</b> A. Patent Application No(s): 12/382,971 Title(s) of Application(s): Structure and Fabrication of Like-Polarity Field-effect Transistors Having Different Configurations of Source/Drain Extensions, Halo Pockets, and Gate Dielectric Thicknesses <input type="checkbox"/> This document is being filed together with a new application executed			
<b>5. Name and address of party to whom correspondence concerning document(s) should be mailed:</b> Name: Ronald J. Meetin Street Address: 210 Central Avenue City: Mountain View State: CA Zip: 94043-4869 Telephone Number: 650-964-9767 Facsimile Number: 650-964-9779 Email Address: rmeetin@earthlink.net		<b>6. Total number of patent applications and patents involved: 1</b> <b>7. Total fee (37 CFR 3.41): \$ 40.00</b> <input checked="" type="checkbox"/> Authorized to be charged to Deposit Account <input type="checkbox"/> Enclosed <b>8. Payment information:</b> Deposit Account No.: 502641 Authorized User Name: Ronald J. Meetin	
<b>9. Statement and signature:</b> 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.			
Ronald J. Meetin, Reg. No. 29,089		Signature: <i>Ronald J. Meetin</i> 26 August 2009	
Total number of pages including cover sheet, attachment(s) and document(s): 40.00 DA			

Document(s) to be recorded (including cover sheet) are to be faxed to 571-273-0140 or mailed to:

MAIL STOP ASSIGNMENT RECORDATION SERVICES  
DIRECTOR OF THE U.S. PATENT AND TRADEMARK OFFICE  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RECORDATION FORM COVER SHEET ATTACHMENT**

1. Name of conveying party(ies) (cont'd):

Jeng-Jiun Yang

Sandeep R. Bahl

D. Courtney Parker

**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, we,

Constantin Bulucea,  
William D. French,  
Donald M. Archer,  
Jeng-Jiun Yang,  
Sandeep R. Bahl, and  
D. Courtney Parker

hereby sell, assign, and transfer to National Semiconductor Corporation, a Delaware corporation, having a place of business at 2900 Semiconductor Drive, Santa Clara, CA 95051, its successors, and assigns, the entire right, title, and interest throughout the world in our invention in:

**Structure and Fabrication of Like-Polarity Field-effect Transistors Having Different Configurations of Source/Drain Extensions, Halo Pockets, and Gate Dielectric Thicknesses**

for which we have filed U.S. patent application 12/382,971 on 27 March 2009 and all national, regional, and international patent applications and patents of every country or region 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 and regions 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 (including regional and international) applications, and generally to do everything possible to aid said assignee, its successors, and assigns, at their request and expense, in obtaining and enforcing patents for said invention in all countries and regions; and we request that the U.S. Patent and Trademark Office and all foreign (including regional) patent offices issue all patents granted for said invention to the above-named assignee, its successors, and assigns.

**First Inventor/Assignor**

Date: JUN 19 2009

Constantin Bulucea

(Signature)

Constantin Bulucea

(Full Name)

State of California

County of Santa Clara ss.

On June 19, 2009 before me, Karen L. Metz,

personally appeared Constantin Bulucea who proved to me on the basis of satisfactory evidence

to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

(Seal)



Karen L. Metz  
Signature of Notary Public

Second Inventor/Assignor

Date: 6-19-2009

William French  
(Signature)

William D. French  
(Full Name)

State of California

County of Santa Clara ss.

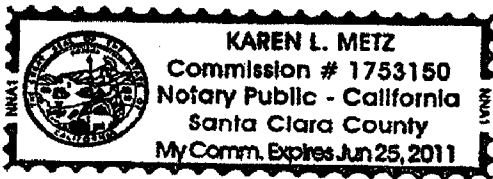
On June 19, 2009 before me, Karen L. Metz

personally appeared William D. French who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

(Seal)



Karen L. Metz  
Signature of Notary Public

Third Inventor/Assignor

Date: 6-18-09

Donald M. Archer  
(Signature)

Donald M. Archer  
(Full Name)

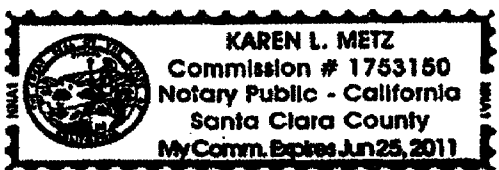
State of California  
County of Santa Clara ss.

On June 18, 2009 before me, Karen L. Metz  
personally appeared Donald M. Archer who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

(Seal)



Karen L. Metz  
Signature of Notary Public

Fourth Inventor/Assignor

Date: June 19, 2009

Jeng-Jiun Yang  
(Signature)

Jeng-Jiun Yang  
(Full Name)

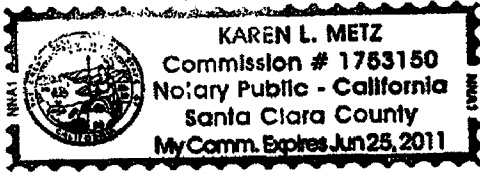
State of California  
County of Santa Clara ss.

On June 19, 2009 before me, Karen L. Metz  
personally appeared Jeng-Jiun Yang who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

(Seal)



Karen L. Metz  
Signature of Notary Public

Fifth Inventor/Assignor

JUN 19 2009

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

S. Bahl  
(Signature)

Sandeep R. Bahl  
(Full Name)

State of California

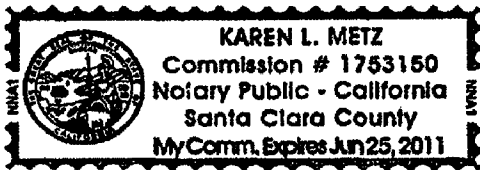
County of Santa Clara ) ss.

On June 19, 2009 before me, Karen L. Metz, personally appeared Sandeep R. Bahl who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

(Seal)



Karen L. Metz  
Signature of Notary Public

**Sixth Inventor/Assignor**

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

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
D. Courtney Parker  
(Full Name)

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

On \_\_\_\_\_ before me, \_\_\_\_\_,  
personally appeared D. Courtney Parker who proved to me on the basis of satisfactory evidence  
to be the person whose name is subscribed to the within instrument and acknowledged to me that  
he executed the same in his authorized capacity, and that by his signature on the instrument the  
person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of \_\_\_\_\_ that  
the foregoing paragraph is true and correct.

WITNESS my hand and official seal

(Seal)

\_\_\_\_\_  
Signature of Notary Public

**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, we,

Constantin Bulucea,  
 William D. French,  
 Donald M. Archer,  
 Jeng-Jiun Yang,  
 Sandeep R. Bahl, and  
 D. Courtney Parker

hereby sell, assign, and transfer to National Semiconductor Corporation, a Delaware corporation, having a place of business at 2900 Semiconductor Drive, Santa Clara, CA 95051, its successors, and assigns, the entire right, title, and interest throughout the world in our invention in:

**Structure and Fabrication of Like-Polarity Field-effect Transistors Having Different Configurations of Source/Drain Extensions, Halo Pockets, and Gate Dielectric Thicknesses**

for which we have filed U.S. patent application 12/382,971 on 27 March 2009 and all national, regional, and international patent applications and patents of every country or region 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 and regions 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 (including regional and international) applications, and generally to do everything possible to aid said assignee, its successors, and assigns, at their request and expense, in obtaining and enforcing patents for said invention in all countries and regions; and we request that the U.S. Patent and Trademark Office and all foreign (including regional) patent offices issue all patents granted for said invention to the above-named assignee, its successors, and assigns.

**First Inventor/Assignor**

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

\_\_\_\_\_

(Signature)

\_\_\_\_\_

(Full Name)

State of \_\_\_\_\_ )

) ss.

County of \_\_\_\_\_ )

On \_\_\_\_\_ before me, \_\_\_\_\_,  
 personally appeared Constantin Bulucea who proved to me on the basis of satisfactory evidence



to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of \_\_\_\_\_ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

(Seal)

\_\_\_\_\_  
Signature of Notary Public

**Second Inventor/Assignor**

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

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
William D. French  
(Full Name)

State of \_\_\_\_\_ )  
  ) ss.  
County of \_\_\_\_\_ )

On \_\_\_\_\_ before me, \_\_\_\_\_, personally appeared William D. French who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of \_\_\_\_\_ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

(Seal)

\_\_\_\_\_  
Signature of Notary Public

**Third Inventor/Assignor**

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

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
Donald M. Archer

(Full Name)

State of \_\_\_\_\_ )

) ss.

County of \_\_\_\_\_ )

On \_\_\_\_\_ before me, \_\_\_\_\_,  
personally appeared Donald M. Archer who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of \_\_\_\_\_ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

(Seal)

\_\_\_\_\_  
Signature of Notary Public

**Fourth Inventor/Assignor**

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

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
Jeng-Jiun Yang

(Full Name)

State of \_\_\_\_\_ )

) ss.

County of \_\_\_\_\_ )

On \_\_\_\_\_ before me, \_\_\_\_\_,  
personally appeared Jeng-Jiun Yang who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of \_\_\_\_\_ that  
the foregoing paragraph is true and correct.

WITNESS my hand and official seal

(Seal)

\_\_\_\_\_  
Signature of Notary Public

**Fifth Inventor/Assignor**

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

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
Sandeep R. Bahl  
(Full Name)

State of \_\_\_\_\_ )  
  ) ss.  
County of \_\_\_\_\_ )

On \_\_\_\_\_ before me, \_\_\_\_\_,  
personally appeared Sandeep R. Bahl who proved to me on the basis of satisfactory evidence to  
be the person whose name is subscribed to the within instrument and acknowledged to me that he  
executed the same in his authorized capacity, and that by his signature on the instrument the  
person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of \_\_\_\_\_ that  
the foregoing paragraph is true and correct.

WITNESS my hand and official seal

(Seal)

\_\_\_\_\_  
Signature of Notary Public

Sixth Inventor/Assignor

Date: 6-12-2009

D. Courtney Parker  
(Signature)

D. Courtney Parker  
(Full Name)

State of MAINE )  
 ) ss.

County of CUMBERLAND

On JUNE 12, 2009 before me, DIANA GARCIA,

personally appeared D. Courtney Parker who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of MAINE that the foregoing paragraph is true and correct.

WITNESS my hand and official seal

(Seal)  
**DIANA GARCIA**  
Notary Public, Maine  
My Commission Expires April 23, 2016

Diana Garcia  
Signature of Notary Public