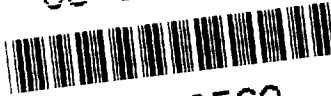


08-06-2002



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Tab settings

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

1. Name of conveying party(ies):  
Richard W. COOK  
Stephen J. O'BRIEN  
Roy L. YARBROUGH

07/26/02

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

2. Name and address of receiving party(ies)

Name: National Semiconductor Corporation

Internal Address:

Street Address: 2900 Semiconductor Drive

Mailstop D3-579

City: Santa Clara State: CA Zip: 95051

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date: July 23, 2002

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

If this document is being filed together with a new application, the execution date of the application is: July 23, 2002

A. Patent Application No.(s)

B. Patent No.(s)

Additional number(s) attached?  Yes  No

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

Name: Mark A. Dalla Valle

Internal Address: Wildman Harrold Allen & Dixon

07/31/2002 DLY111 00000007 10205853

02 FC: 81 40.00 OP

Street Address: 225 W. Wacker Drive

City: Chicago State: IL Zip: 60606

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:

23-2126

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

DO NOT USE THIS SPACE

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.

Mark A. Dalla Valle

Name of Person Signing

Signature

July 26, 2002

Date

Total number of pages including cover sheet, attachments, and document: 3

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

07/31/2002 DLY111 00000007 10205853

JCS91 U.S. PTO  
10/20/02



ASSIGNMENT

WHEREAS, We, Richard W. Cook, Stephen J. O'Brien and Roy L. Yarbrough, hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: LOW VOLTAGE DIFFERENTIAL SWING (LVDS) SIGNAL DRIVER CIRCUIT WITH LOW PVT SENSITIVITY

Application Execution Date:

Filing Date: Application No.: NEW

WHEREAS, NATIONAL SEMICONDUCTOR CORPORATION, a corporation of the State of Delaware, 2900 Semiconductor Drive, Mailstop D3-579, Santa Clara, California 95051, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in the said invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for One Dollar (\$1.00) and other good and valuable considerations, receipt of which is hereby acknowledged by Assignors, Assignors have sold, assigned and transferred, and by these presents does sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any such Letters Patent.

Assignors further agree that they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

We hereby authorize and request our attorney, Mark A. Dalla Valle, of Wildman, Harrold, Allen & Dixon, 225 West Wacker Drive, Chicago, Illinois 60606, to insert here in parentheses (application number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, Assignors have hereunto signed his/her name to this assignment on the date indicated below.

Dated: July 23, 2002

[Signature of Richard W. Cook]
Richard W. Cook

State of Maine

County of York

On 7/23/02 before me, Susan A Jenkins, personally appeared \_\_\_\_\_ and \_\_\_\_\_, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.
[Signature of Susan A Jenkins]
Signature of Notary

SEAL

[Handwritten note: My Commission Expires Oct 26, 2007]

Dated: 7/23/02

Stephen J. O'Brien  
Stephen J. O'Brien

State of Maine

County of Cumberland

On 7/23/02 before me, Susan A Jenkins,  
personally appeared \_\_\_\_\_ and \_\_\_\_\_, personally known to me or proved to  
me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and  
acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their  
signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.  
WITNESS my hand and official seal.

Susan A Jenkins  
Signature of Notary

SEAL

Dated: 7/23/02

Roy L. Yarbrough  
Roy L. Yarbrough

State of Maine

County of Oxford

On 7/23/02 before me, Susan A Jenkins,  
personally appeared \_\_\_\_\_ and \_\_\_\_\_, personally known to me or proved to  
me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and  
acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their  
signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.  
WITNESS my hand and official seal.

Susan A Jenkins  
Signature of Notary

SEAL

*My commission  
expires Oct 26, 2007*