

NRD 5-12-98

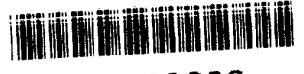
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To the Commissioner of Patents and Trademark

documents or copy thereof.

1. Name of conveying party(ies):  
Wong Hee  
Abhijit Phanse

Name: NATIONAL SEMICONDUCTOR CORPORATION

Internal Address: M/S D3-579

Street Address: 2900 Semiconductor Drive

City, State and Zip: Santa Clara, CA 95051-8090

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

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other

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

Execution Date: May 11, 1998

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: May 11, 1998

A. Patent Application No.(s)  
NEW

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Mark A. Dalla Valle  
Internal Address: Limbach & Limbach L.L.P.  
Street Address: 2001 Ferry Building  
City, State, ZIP: San Francisco, California 94111  
Telephone: (415) 433-4150  
Facsimile: (415) 433-8716  
Attorney Docket No. NSC1-C0810 [NS3599-NP]

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):.....\$ 40.00

Enclosed  
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Mark A. Dalla Valle, Reg. No. 36,147  
Name of Person Signing

*[Signature]*  
Signature

May 12, 1998  
Date

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

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PATENT

ASSIGNMENT

WHEREAS, WE, Wong Hee and Abhijit Phanse, 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: CONTROL LOOP FOR ADAPTIVE EQUALIZATION OF A DATA SIGNAL

Application Execution Date: May 11, 1998 Filing Date: HEREWITH

Application No.: NEW ;

WHEREAS, NATIONAL SEMICONDUCTOR CORPORATION, a corporation of the State of Delaware, 2900 Semiconductor Drive, M/S D3-579, Santa Clara, California 95051-8090, 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 and in consideration of the sum of One Dollar (\$1.00) lawful money paid to Assignors by Assignee, receipt of which is hereby acknowledged, Assignors has sold, assigned and transferred, and by these presents do sell, assign and transfer unto 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, the 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 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.

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the dates indicated below.

Dated: May 11, 98 Wong Hee  
Wong Hee

State of California

County of Santa Clara

On May 11, 1998 before me, Jenifer L. Griffin, Notary Public  
personally appeared Wong Hee, personally known to me or 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/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature 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.  
Jenifer L. Griffin  
Signature of Notary



PATENT

IN TESTIMONY WHEREOF, Assignor has hereunto signed his\her name to this assignment on the dates indicated below.

Dated: May 11, 98

*APHANSE*

Abhijit Phanse

State of California

County of Santa Clara

On May 11, 1998 before me, Jennifer L. Griffin, Notary Public

personally appeared Abhijit Phanse, personally known to me or proved to me on the basis of satisfactory evidence to be the person ~~(s)~~ whose name ~~(s)~~ is ~~(s)~~ 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.

Jennifer L. Griffin  
Signature of Notary

