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Patent and Trademark Office

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1. Name of conveying party(ies):  
  
Andy Morrish  
  
*07/13/01*

2. Name and address of receiving party(ies):  
  
National Semiconductor Corporation  
2900 Semiconductor Drive  
Santa Clara, California 95051-8090  
  
Additional name(s) & address(es) attached?  Yes  No

JC986 U.S. PTO  
09/905392  
07/13/01

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

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

Execution Date: July 5, 2001

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: July 5, 2001

A. Patent Application No.(s)  
  
*09/905392*

B. Patent No.(s)  
  
Additional numbers attached?  Yes  No

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

Name: John W. Branch  
Address: Merchant & Gould P.C.  
P.O. Box 2903  
Minneapolis, MN 55402-0903

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. Please charge any additional fees or credit any overpayments to our Deposit account number: 13-2725

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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.

John W. Branch  
Name of Person Signing  
Reg. No. 41,633

*John W. Branch*  
Signature

July 13, 2001  
Date

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

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PATENT  
REEL: 012004 FRAME: 0182

**ASSIGNMENT**

WHEREAS, I, Andy Morrish, residing at 12657 Sun Valley Court, Saratoga, California 95070, made certain new and useful inventions and improvements as described and claimed in the specification forming part of an application for Letters Patent of the United States executed herewith, which is entitled METHOD AND APPARATUS THAT REDUCES JITTER IN A DISPLAY BY PROVIDING TEMPORAL HYSTERESIS.

AND WHEREAS, National Semiconductor Corporation, a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 2900 Semiconductor Drive, Santa Clara, California 95051-8090 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

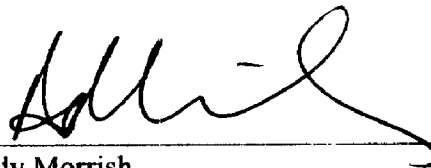
NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire

right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 5<sup>th</sup> day of July, 2001.



Andy Morrish

STATE OF CALIFORNIA )  
 ) ss.  
COUNTY OF SANTA CLARA )

On this 5<sup>th</sup> day of JULY, 2001, before me personally appeared Andy Morrish to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]



Notary Public

