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DOCKET NO: NS-3697 US

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To the Honorable Commissioner of Patents and Trademarks, 100772933 original documents or copy thereof.

1. Name of conveying party(ies): KWP 7-14-98  
(a) Gregory J. Smith  
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

108:30 U.S. PTO  
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09/15/98

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Date: July 13, 1998

City Santa Clara State California ZIP 95051  
Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or patent number(s): 09/115,410  
If this document is being filed together with a new application, the execution date of the application is: July 14, 1998  
A. Patent Application No.(s) -  
Title: Voltage Reference Circuit Providing A Valid Reference Signal

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

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Edward C. Kwok  
Internal Address: SKJERVEN, MORRILL, MacPHERSON, FRANKLIN & FRIEL LLP  
Street Address: 25 METRO DRIVE, SUITE 700  
City SAN JOSE State CA ZIP 95110

6. Total number of applications and patents involved: 1  
7. Total fee (37 CFR 3.41): ..... \$40.00  
 Authorized to be charged to Deposit Account 19-2386  
 Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid

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8. 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.*  
Michael J. Halbert 40,633  
Name of Person Signing Signature Michael Halbert Date 7-14-98

Total number of pages comprising cover sheet: 2

**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, I, Gregory J. Smith, of 4980 N. Fort Verde Trail, Tucson, Arizona 85750, hereby sell, assign and transfer to National Semiconductor Corporation, a Delaware corporation, having a place of business at 2900 Semiconductor Drive, Santa Clara, California 95051, its successors and assigns, the entire right, title and interest throughout the world in my invention in

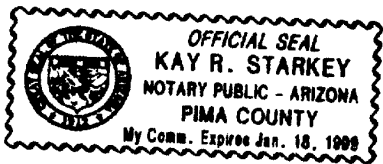
Voltage Reference Circuit Providing A Valid Reference Signal

for which I have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; I authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from me; I agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and I request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 13<sup>th</sup> day of July, 1998.  
Gregory J. Smith  
Gregory J. Smith

State of Arizona )  
County of Pima ) ss.

On July 13 '98 before me, Kay R. Starkey personally appeared Gregory J. Smith 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.  
Kay R. Starkey  
SIGNATURE OF NOTARY