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To the Commissioner of Patents and Trademarks: Please record the attached original documents or 1. Name of conveying party(ies):		2. Name and address of receiving party(ies):	
Marshall		National Semiconductor Corporation 2900 Semiconductor Drive Santa Clara, California 95051-8090	10/272215 10/272215
Additional name(s) of conveying party(ies) attached? Yes No	Additional name(s) & address(es) attached? Yes No	• *
 Nature of	conveyance: gnment		
Execution Da	ate: October 9, 2002	_	
4. Applicati	on number(s) or patent number(s):	77715	
		od October 10, 2002	
I his doci	ument is being filed together with a new application date		
A. Patent Application No.(s)		B. Patent No.(s)	
document sh Name: Address: 9. Statemen	Additional numbers attacted address of party to whom correspondence concerning ould be mailed: Mark R. Hennings Merchant & Gould P.C. P.O. Box 2903 Minneapolis, MN 55402-0903 DO NOT USE 1	 6. Total number of applications and patents in the second of th	it account uny er: 13-2725
To the be	est of my knowledge and belief, the foregoing information	on is true and correct and any attached copy is a tr	ue copy of the
-	document.		
Mark R. Hennings, Reg. No. 48,982		October 1:	
Name of Per	rson Signing S	Total number of pages including cover sheet, attachi	Date ments, and document: 3
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Public burd document a Patent and	nents to be recorded with required cover sheet information to: Box Assig Director - U.S. Patent a Washington, den reporting for this sample cover sheet is estimated to average about and gathering the data needed, and completing and reviewing the samp Trademark Office, Office of information systems, PK2-1000C, Wash: Project (0651-0011), Washington, D.C. 20503.	nd Trademark Office D.C. 20231 30 minutes per document to be recorded, including time for re-	e to the U.S.
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FC:8021	40.00 OP)		

PATENT REEL: 013404 FRAME: 0859

ASSIGNMENT

WHEREAS, I, Marshall J. Bell, residing at 2343 E. San Tan Street, Chandler, Arizona, 85225, 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 BANDGAP USING LATERAL PNPs.

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

PATENT REEL: 013404 FRAME: 0860 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 9 day of october, 2002.

MARSHALL J. BELL

COUNTY OF MALICUPA SS.

MARSHALL J. BELL 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

Notary Public State of Arizona

Maricopa County

Cynthia L Quest

Expires May 20, 2003

RECORDED: 10/15/2002

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