Express Mail Numb	Der <u>EL 254067788US</u>
FORM PTO-1595 1-51-92 10-20-1999	U.S. DEPARTMENT OF COMMERCE
To the Commissioner of Patents ar	original documents or copy thereof.
1. Name of conveying party(ies) 101178224 DOUGLAS ROBERT FARRENKOPF	and address of receiving party(ies):
	Name: NATIONAL SEMICONDUCTOR CORPORATION
	Internal Address: M/S D3-579
Additional name(s) of conveying party(ies) attached?	Street Address: 2900 Semiconductor Drive
	City, State and Zip: <u>Santa Clara, CA 95051-8090</u>
3. Nature of Conveyance: $MPD / 0 - 8 - 99$	Additional Name(s) & address(es) attached?
X     Assignment     Merger       Security Agreement     Change of Name       Other	Yes X No
Execution Date: <u>October 6, 1999</u>	_
<ol> <li>Application number(s) or patent number(s):</li> </ol>	
If this document is being filed together with a new applic	cation, the execution date of the application is: <u>10/06/99</u>
A. Patent Application No.(s)	B. Patent No.(s)
Additional numbers attached?	] Yes X No
<ul> <li>Name and address of party to whom correspondence concernin document should be mailed:</li> </ul>	ng 6. Total number of applications and patents involved: 1
Name: <u>Alfred A. Equitz</u>	7. Total fee (37 CFR 3.41):\$ 40.00
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	X       Enclosed         Charge any deficiencies in the enclosed fee to         X       Deposit Account No. 12-1420         Authorized to be charged to deposit account
Facsimile: (415) 433-8716 Attorney Docket No. NSC1-G1900 [P04384]	8. Deposit account number: 12-1420
Actorney Docket No. NSCI-01900 [P04304]	(Attach duplicate copy of this page if paying by deposit account)
DO NOT US	E THIS SPACE
<ol> <li>Statement and signature.</li> </ol>	
To the best of my knowledge and belief, the foregoing information is true a	and correct and any attached copy is a true copy of the original document.
Alfred A. Equitz, Reg. No. 30,922	Upula Court 10/8/99
Total number o	of pages including cover sheet, attachments and document: 2
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Mail documents to be recorded with required cover sheet information to:	
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document and gathering the data needed, and completing and reviewing the	about 30 minutes per document to be recorded, including time for reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. /ashington, D.C. 20213, and to the Office of Management and Budget, Paperwork
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	REEL: 010311 FRAME: 0687

## Express Mail Number <u>EL254064</u>78805

Filing Date:

Attorney Docket No. NSC1-G1900 [P04384]

ASSIGNMENT

WHEREAS, I, DOUGLAS ROBERT FARRENKOPF, hereinafter referred to as "ASSIGNOR", 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: DC-to-DC CONVERTER WITH CURRENT MODE SWITCHING CONTROLLER THAT PRODUCES RAMPED VOLTAGE WITH ADJUSTABLE EFFECTIVE RAMP RATE

Application Execution Date: October 6, 1999

Application No.: ;

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 One Dollar (\$1.00) and other good and valuable considerations, receipt of which is hereby acknowledged by Assignor, Assignor has 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 Assignor had this assignment and transfer not been made, to the full end and term of any such Letters Patent.

Assignor further agrees that he will, without charge to said Assignce, 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.

I hereby authorize and request my attorney, Alfred A. Equitz, of Limbach & Limbach L.L.P., 2001 Ferry Building, San Francisco, California 94111-4262, to insert here in parentheses (application number , filed ) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, Assignor has hereunto signed hig/ber name to this assignment on the date indicated below.

Dated: 10-6-99

Palitorn Santa C County of 🔪

on <u>Oct. 6, 1999</u> before me, <u>Eugene</u> <u>A</u> <u>Conser</u> <u>(Notary)</u> personally appeared <u>Dous as <u>Robert Forrenkopf</u></u>, personally known to me or proved to me on the basis of satisfactory évidence to be the person whose name (s) (solare subscribed to the within instrument and acknowledged to me that he she<u>ther</u> executed the same in (his her<u>ther</u> authorized capacity jes), and that by his her<u>ther</u> rsignature (or on the instrument the person (or, or the entity upon behalf of which the person of acted, executed the instrument.



WITNESS my hand and official seat	
Grand Co	
Signature of Notary	

NSC\ASMT1.MRG



PATENT Rev. 07/20/98 REEL: 010311 FRAME: 0688