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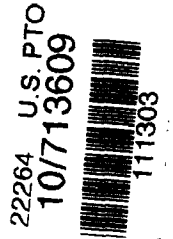
To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Jarmo Antero Vaananen

2. Name and address of receiving party(ies):

National Semiconductor Corporation  
2900 Semiconductor Drive  
Santa Clara, California 95051-8090



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

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

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other:
- Merger
- Change of Name

Execution Date: November 13, 2003

4. Application number(s) or patent number(s):

101713609

If this document is being filed together with a new application, the execution date of the application is: November 13, 2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Brett A. Hertzberg  
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  
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 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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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.

Brett A. Hertzberg, Reg. No. 42,660

Signature

November 13, 2003

Name of Person Signing

Date

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

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ASSIGNMENT

WHEREAS, I, Jarmo Antero Vaananen, residing at Heikkuja 2D6, Haukipudas, 90830 Finland, 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 TEMPERATURE COMPENSATED BATTERY CHARGER CURRENT.

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 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.

Signed at Oulu FINLAND, this 13 day of November, 2003.

  
JARMO ANTERO VAANANEN

Witnessed by: \_\_\_\_\_  
Name: \_\_\_\_\_