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Authorized User Name Matthew M. Gaffney

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08211/0200381-US0(P05799)

ASSIGNMENT

I, William Llewellyn, a citizen of US, residing at 1470 Husted Avenue; San Jose, California 95125; and

I, Seema Varma, a citizen of India, residing at 1063 Heatherstone Way; Sunnyvale, California 94087; and

I, Ha C. Vu, a citizen of US, residing at 5910 Exeter Ct.; San Jose, California 95138;

and each of us, if more than one person is identified above (hereinafter "ASSIGNOR") in consideration of the sum of Ten Dollars (\$10.00), or the equivalent thereof, and other good and valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged, paid to ASSIGNOR by

National Semiconductor Corporation

a Corporation organized under the laws of Delaware, located at 2900 Semiconductor Drive, Santa Clara, California 95051-8090 (hereinafter "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, the below indicated right, title, and interest, **throughout the world** in and to my Invention entitled:

**PROGRAMMABLE GAIN AMPLIFIER WITH HYBRID DIGITAL/ANALOG
ARCHITECTURE**

invented by me and described in Patent Application No. 10/791,909, filed on March 3, 2004, in the United States; and all patents, divisions, reissues, continuations and any extensions thereof and rights of priority therein, said interest being my entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made;

And for the consideration aforesaid, I hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or

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representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, I will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law;

And I hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date of March 1, 2004.

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I have signed this document as my own free act and that all of the foregoing is true and correct.


William Llewellyn

Date: 9/15/04

United States of America
State of California) ss.:
County of Santa Clara

On this 15th day of September, 2004, before me personally came William Llewellyn, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Karen L. Priddy
Notary Public

Ha C. Vu

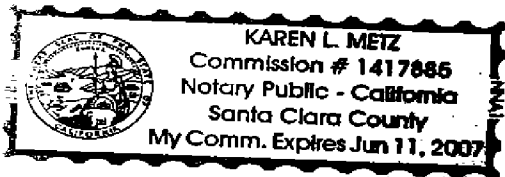
Ha C. Vu

Date: Sept 15, 04

United States of America

State of California) ss.:County of Santa Clara

On this 15th day of September, 2004, before me
personally came Ha C. Vu, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.

Karen L. Metz
Notary Public