

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
<b>CONVEYING PARTY DATA</b>									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Peter J. Hopper</td> <td>07/26/2010</td> </tr> <tr> <td>William French</td> <td>07/26/2010</td> </tr> <tr> <td>Ann Gabrys</td> <td>07/27/2010</td> </tr> </tbody> </table>		Name	Execution Date	Peter J. Hopper	07/26/2010	William French	07/26/2010	Ann Gabrys	07/27/2010
Name	Execution Date								
Peter J. Hopper	07/26/2010								
William French	07/26/2010								
Ann Gabrys	07/27/2010								
<b>RECEIVING PARTY DATA</b>									
Name:	National Semiconductor Corporation								
Street Address:	2900 Semiconductor Drive								
Internal Address:	M/S D3-579								
City:	Santa Clara								
State/Country:	CALIFORNIA								
Postal Code:	95051-8090								
<b>PROPERTY NUMBERS Total: 1</b>									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12838655</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12838655				
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Application Number:	12838655								
<b>CORRESPONDENCE DATA</b>									
Fax Number:	(415)256-9827								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	4152569875								
Email:	mark@mcpickering.com								
Correspondent Name:	Law Office Of Mark C. Pickering								
Address Line 1:	P.O. Box 151440								
Address Line 4:	San Rafael, CALIFORNIA 94915-1440								
ATTORNEY DOCKET NUMBER:	100-36300 (P07583)								
NAME OF SUBMITTER:	Mark C. Pickering								

OP \$40.00 12838655

Total Attachments: 2  
 source=P07583\_02SEP2010\_ASSN\_LOP#page1.tif

**501280146**

**PATENT  
 REEL: 024929 FRAME: 0957**



ASSIGNMENT

WHEREAS, WE, PETER J. HOPPER, WILLIAM FRENCH, and ANN GABRYS, hereinafter referred to as "ASSIGNORS", 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: Ferrofluidic Orientation Sensor and Method of Forming the Sensor  
Application Execution Date, (Date Declaration Signed): July 19, 2010, July 9, 2010, and July 12, 2010  
Filing Date: July 19, 2010 Appln. No.: 12/838,655

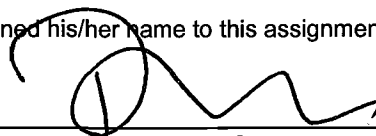
WHEREAS, NATIONAL SEMICONDUCTOR CORPORATION, a corporation of the State of Delaware, 2900 Semiconductor Drive, M/S D3-579, Santa Clara, California 95051-8090, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in the said invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to Assignors by Assignee, receipt of which is hereby acknowledged, Assignors has sold, assigned and transferred, and by these presents do sell, assign and transfer unto 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, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any Letters Patent.

Assignors further agree that they will, without charge to said Assignee, 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.

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

Dated: 26th July 2010

  
\_\_\_\_\_  
PETER J. HOPPER

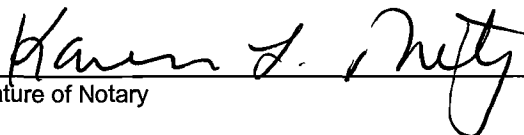
State of California

County of Santa Clara

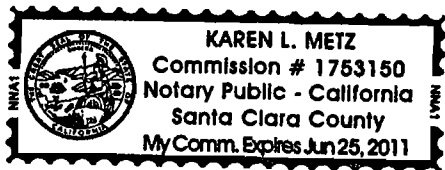
On July 26, 2010 before me, Karen L. Metz, (Notary Public), personally appeared Peter J. Hopper, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in (his)/her/their 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

  
\_\_\_\_\_  
Signature of Notary

SEAL



Asmt3

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

Dated: 7-26-2010

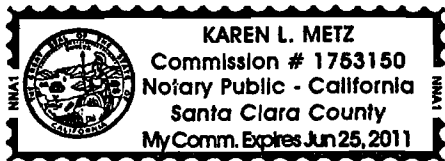
William French  
WILLIAM FRENCH

State of California

County of Santa Clara

On July 26, 2010 before me, Karen L. Metz (Notary Public), personally appeared William French, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.



SEAL

WITNESS my hand and official seal.

Karen L. Metz  
Signature of Notary

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

Dated: 27 July 2010

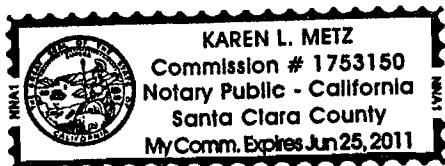
Ann Gabrys  
ANN GABRYS

State of California

County of Santa Clara

On July 27, 2010 before me, Karen L. Metz (Notary Public), personally appeared Ann Gabrys, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.



SEAL

WITNESS my hand and official seal.

Karen L. Metz  
Signature of Notary