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ASSIGNMENT RECORDATION COVER SHEET  
-PATENTS ONLY-

JCS18 U.S. PTO  
09/069268  
04/29/98

*MPD 4-29-98*

To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document(s) or copy thereof.

- 1. Name of conveying party(ies)  
a) Chainarong Asanasavest
- 2. Name and address of receiving party(ies):  
a) Name: National Semiconductor Corporation  
Address: 2900 Semiconductor Drive, Santa Clara, CA 95051

- 3. Nature of conveyance
 

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other _____	<input type="checkbox"/> License Agreement

Execution Date: April 22, 1998

- 4. Application Number(s) or Patent Number(s):

The title of the (new) application is:

**MAGNETIC ALIGNMENT APPARATUS AND METHOD FOR SELF-ALIGNMENT  
BETWEEN A DIE AND A SUBSTRATE**

- 5. Please send all correspondence concerning this (these) documents to:

**Michael L. Louie**  
BEYER & WEAVER, LLP  
P.O. Box 61059  
Palo Alto, CA 94306  
Tel. No.: (510) 843-6200  
Fax No.: (510) 843-6203

- 6. Total number of applications and patents involved: 1

- 7. Total fee (37 CFR 3.41): \$40.00

- Enclosed
- Authorized to be charged to Deposit Account No. 50-0388  
(Order No. NSC1P109)

- 8. 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.

Date: April 29, 1998

Michael L. Louie  
Michael L. Louie  
Registration No. 36,988

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Attorney Docket No. NSC1P109/NS 3857

(Revised 01/96)

PATENT  
REEL: 9151 FRAME: 0156

**ASSIGNMENT OF PATENT APPLICATION**

(Accompanying Application)

Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set for in the patent application entitled:

**MAGNETIC ALIGNMENT APPARATUS AND METHOD FOR SELF-ALIGNMENT BETWEEN A DIE AND A SUBSTRATE**

(Atty. Docket No.: NSC1P109/NS3857) for which I (we) have executed an application for a United States Letters Patent.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We the undersigned inventor(s) hereby:

- 1) Sell(s), assign(s) and transfer(s) to **National Semiconductor Corporation**, a California corporation having a place of business at 2900 Semiconductor Drive, Santa Clara, California, (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the date(s) indicated beside my (our) signature(s).

1) Signature: *Chainarong Asanasavest* Date: 4/22/98  
 Typed Name: Chainarong Asanasavest

On this 22 day of April, in the year 1998, before me, *Jennifer L. Griffin*, personally appeared Chainarong Asanasavest, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that ~~he~~<sup>she</sup> executed the same in ~~his~~<sup>her</sup> authorized capacity(~~ies~~), and that by ~~his~~<sup>her</sup> signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature *Jennifer L. Griffin*

(SEAL)

