

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Ruchi Wadhawan</td><td>11/28/2006</td></tr><tr><td>Jason M. Kassoff</td><td>11/28/2006</td></tr><tr><td>George Kong Yiu</td><td>11/23/2006</td></tr></tbody></table>	Name	Execution Date	Ruchi Wadhawan	11/28/2006	Jason M. Kassoff	11/28/2006	George Kong Yiu	11/23/2006	
Name	Execution Date								
Ruchi Wadhawan	11/28/2006								
Jason M. Kassoff	11/28/2006								
George Kong Yiu	11/23/2006								
RECEIVING PARTY DATA									
Name:	P.A. Semi, Inc.								
Street Address:	3965 Freedom Circle								
Internal Address:	Floor 8								
City:	Santa Clara								
State/Country:	CALIFORNIA								
Postal Code:	95054								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11565391</td></tr></tbody></table>	Property Type	Number	Application Number:	11565391					
Property Type	Number								
Application Number:	11565391								
CORRESPONDENCE DATA									
Fax Number:	(512)853-8801								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	5128538800								
Email:	dpoudrier@intprop.com								
Correspondent Name:	Lawrence J. Merkel								
Address Line 1:	P.O. Box 398								
Address Line 4:	Austin, TEXAS 78767-0398								
ATTORNEY DOCKET NUMBER:	5888-04400/LJM								
NAME OF SUBMITTER:	Lawrence J. Merkel								
Total Attachments: 6 source=5888-04400_assignment#page1.tif									

CH \$40.00 11565391

500186743

PATENT  
REEL: 018568 FRAME: 0823

source=5888-04400\_assignment#page2.tif  
source=5888-04400\_assignment#page3.tif  
source=5888-04400\_assignment#page4.tif  
source=5888-04400\_assignment#page5.tif  
source=5888-04400\_assignment#page6.tif

## ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER to P.A. Semi, Inc. (the "Assignee"), a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having its principal place of business at 3965 Freedom Circle, Floor 8, Santa Clara, CA 95054, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, and is entitled CACHE USED BOTH AS CACHE AND STAGING BUFFER, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assigns.

(Signature) Ruchi Wadhawan  
Name: Ruchi Wadhawan

Date: Nov 28/06

Witness:  
Signature: [Signature]

Date: 11/28/2006

Print Name: YEN-TING TUNG

(Signature) \_\_\_\_\_  
Name: Jason M. Kassoff

Date: \_\_\_\_\_

Witness:  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

(Signature) \_\_\_\_\_  
Name: George Kong Yiu

Date: \_\_\_\_\_

Witness:  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Lawrence J. Merkel  
Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.  
P.O. Box 398  
Austin, TX 78767-0398

## ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER to P.A. Semi, Inc. (the "Assignee"), a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having its principal place of business at 3965 Freedom Circle, Floor 8, Santa Clara, CA 95054, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, and is entitled CACHE USED BOTH AS CACHE AND STAGING BUFFER, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assigns.

(Signature) \_\_\_\_\_  
Name: Ruchi Wadhawan

Date: \_\_\_\_\_

Witness:  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

(Signature) Jason M. Kassoff  
Name: Jason M. Kassoff

Date: 11/28/06

Witness:  
Signature: Randall Wong

Date: 11.28.06

Print Name: RANDALL WONG

(Signature) \_\_\_\_\_  
Name: George Kong Yiu

Date: \_\_\_\_\_

Witness:  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Lawrence J. Merkel  
Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.  
P.O. Box 398  
Austin, TX 78767-0398

**ASSIGNMENT**

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER to P.A. Semi, Inc. (the "Assignee"), a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having its principal place of business at 3965 Freedom Circle, Floor 8, Santa Clara, CA 95054, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, and is entitled **CACHE USED BOTH AS CACHE AND STAGING BUFFER**, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assigns.

(Signature) \_\_\_\_\_  
Name: Ruchi Wadhawan

Date: \_\_\_\_\_

Witness:  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

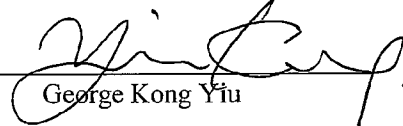
(Signature) \_\_\_\_\_  
Name: Jason M. Kassoff

Date: \_\_\_\_\_

Witness:  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

(Signature)   
Name: George Kong Yiu

Date: 11/23/2006

Witness:  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Lawrence J. Merkel  
Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.  
P.O. Box 398  
Austin, TX 78767-0398