

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | |
|--|--|---------------|--|--|----------------------|-------------------|-------------------------------|---------------|------------|----------------|--------|--------------|--------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Greja Johanna Adriana Maria VERHEIJDEN</td> <td>05/06/2009</td> </tr> <tr> <td>Roel DAAMEN</td> <td>05/06/2009</td> </tr> <tr> <td>Gerhard KOOPS</td> <td>05/04/2009</td> </tr> </tbody> </table> | | Name | Execution Date | Greja Johanna Adriana Maria VERHEIJDEN | 05/06/2009 | Roel DAAMEN | 05/06/2009 | Gerhard KOOPS | 05/04/2009 | | | | |
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| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.</td> </tr> <tr> <td>Street Address:</td> <td>No. 8, Li-Hsin Rd. 6</td> </tr> <tr> <td>Internal Address:</td> <td>Science-Based Industrial Park</td> </tr> <tr> <td>City:</td> <td>Hsin-Chu</td> </tr> <tr> <td>State/Country:</td> <td>TAIWAN</td> </tr> <tr> <td>Postal Code:</td> <td>300-77</td> </tr> </table> | | Name: | TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. | Street Address: | No. 8, Li-Hsin Rd. 6 | Internal Address: | Science-Based Industrial Park | City: | Hsin-Chu | State/Country: | TAIWAN | Postal Code: | 300-77 |
| Name: | TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD. | | | | | | | | | | | | |
| Street Address: | No. 8, Li-Hsin Rd. 6 | | | | | | | | | | | | |
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| City: | Hsin-Chu | | | | | | | | | | | | |
| State/Country: | TAIWAN | | | | | | | | | | | | |
| Postal Code: | 300-77 | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12427797</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 12427797 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 12427797 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| <p>Fax Number: (214)200-0853</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 9737398635</p> <p>Email: lydia.eppshilliard@haynesboone.com</p> <p>Correspondent Name: David M. O'Dell</p> <p>Address Line 1: HAYNES AND BOONE, LLP IP Section</p> <p>Address Line 2: 2323 Victory Avenue, Suite 700</p> <p>Address Line 4: Dallas, TEXAS 75219</p> | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 24061.1282 | | | | | | | | | | | | |
| NAME OF SUBMITTER: | David M. O'Dell | | | | | | | | | | | | |

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PATENT
REEL: 022729 FRAME: 0600

Total Attachments: 2

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ASSIGNMENT

WHEREAS, we

- | | |
|---------------------------------|------------------------------------|
| (1) Greja Johanna Adriana Maria | of BC Riethoven, The Netherlands |
| (2) Roel Daamen | of AB Herkenbosch, The Netherlands |
| (3) Gerhard KOOPS | of Aalst, Belgium |

have invented certain improvements in

METHOD OF MANUFACTURING A DEVICE WITH A CAVITY

for which we filed a patent application for letters patent in the United States of America on April 22, 2009, as U.S. Patent Application Serial No. 12/427,797.

WHEREAS, **TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.**, (hereinafter "**ASSIGNEE**"), of No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, Republic of China is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said **ASSIGNEE**, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said **ASSIGNEE**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said **ASSIGNEE**, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said **ASSIGNEE**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Assignment

Docket No: ~~2009-0175/24061-1284~~
Customer No. 42717

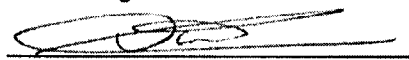
First Inventor Name: Greja Johanna Adriana Maria VERHEIJDEN

Residence Address: Eind 14
5561 BC Riethoven
The Netherlands

Dated: 06/05/2009


Inventor Signature


Dated: 06/05/2009


Witness Signature
Witness Name: Tony Vanheule

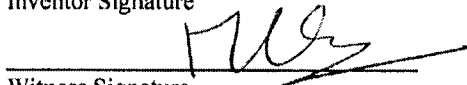
Second Inventor Name: Roel DAAMEN

Residence Address: Molenbergweg 15
6075 AB Herkenbosch
The Netherlands

Dated: 06/05/2009


Inventor Signature


Dated: 06/05/2009


Witness Signature
Witness Name: Nguyen Hoang Viet

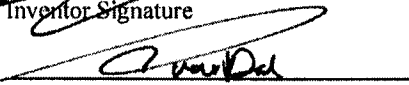
Third Inventor Name: Gerhard KOOPS

Residence Address: Affligendreef 124
B-9300 Aalst
Belgium

Dated: 04/05/2009


Inventor Signature

Dated: 04/05/2009


Witness Signature
Witness Name: Mark van Dal