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Please record the attached original documents or copies thereof.

1. Name of conveying party(ies): **CARL ZEISS SEMICONDUCTOR
MANUFACTURING TECHNOLOGIES AG**

2. Name and address of receiving party(ies): **CARL ZEISS SMT AG
CARL-ZEISS-STR. 22
OBERKOCHEN, GERMANY 73447**

3. Nature of conveyance:
 Assignment Merger
 Security Agreement **XXXXX** Change of Name
 Other: _____

Execution Date: August 07, 2002

4. Application number(s) or application date(s):
If this document is being filed together with a new application, the execution date of the application is:

A. Application/Patent No. **11/345,880** B. Application/Issue Date **February 2, 2006**

5. Name and address of party to whom correspondence concerning this document should be mailed:

**Charles N.J. Ruggiero
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.
One Landmark Square, 10th Floor
Stamford, Connecticut 06901-2682 U.S.A.**

6. Total No. of applications and patents involved: 1

7. Total Fee (37 C.F.R. 3.41(h)) \$40.00/assignment.
XXXXX CUSTOMER NO.: 27623

The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 3.41 that may be required with this communication or credit any overpayment, to Deposit Account No. **01-0467**. A duplicate copy of this Form is enclosed.

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.

Feb 2006

Charles N.J. Ruggiero
Name of Person Signing

Charles N.J. Ruggiero **11/7/06**
Signature Date

Total number of pages including cover sheet (in duplicate) and attachments: 5

CERTIFICATE OF TRANSMISSION

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING FACSIMILE TRANSMITTED TO THE FACSIMILE NUMBER 571 273 0140, TOTAL OF 5 PAGES, C/O MAIL STOP ASSIGNMENT RECORDATION SERVICES, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450, ON November 7, 2006.

Michelle M Bombino
NAME

Michelle M Bombino **11/7/06**
SIGNATURE DATE

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CARL-ZEISS-STR. 22
OBERROTHEN, GERMANY 73447**

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 Assignment
 Security Agreement
 Other
 Merger
 Change of Name

Execution Date: August 27, 2008

- 4. Application number(s) or application date(s):
If this document is being filed together with a new application, the execution date of the application is:

- A. Application/Patent No. 11/548,880
- B. Application/Issue Date February 2, 2008

- 5. Name and address of party to whom correspondence concerning this document should be mailed:

Charles N.J. Ruggiero
Orlando, Greeley, Ruggiero & Peris, L.L.P.
One Landmark Square, 10th Floor
Stamford, Connecticut 06901-2882 U.S.A.

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~~XXXX~~ CUSTOMER NO.: 27823

The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 3.41 that may be required with this communication or credit any overpayment, to Deposit Account No. 01-0487. A duplicate copy of this Form is enclosed.

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.

Charles N.J. Ruggiero
Name of Person Signing

[Signature]
Signature
11/07/06
Date

Total number of pages including cover sheet (in duplicate) and attachments: 2

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING FACSIMILE TRANSMITTED TO THE FACSIMILE NUMBER 571 373 0140, TOTAL OF 2 PAGES, C/O MAIL STOP ASSIGNMENT RECORDATION SERVICES, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450, ON November 7, 2006.

Michael M. Spindler
NAME

[Signature]
SIGNATURE
11/07/06
DATE

Trade Register B of District Court Weidner

Date Retrieval of September 19, 2002, at 4:05 p.m.

Company ID Number:

HRB 12

Entry No.	a) Company by Domestic b) Business Purpose	Base Capital	a) Rules of representation b) Authorized representatives and special authority of representation	Praxis (Authority to sign on behalf of Company)	a) Form of Company by Laws b) Other legal arrangements	a) Date of entry and confirmation b) Comments
1	2	3	4	5	6	7
1	<p>a) Carl Zeiss Semiconductor Manufacturing Technologies Aktiengesellschaft</p> <p>b) Lahn-Weidner</p> <p>c) The purpose of the enterprise is the development, manufacture, processing and distribution of optical opto-electronic, precision-mechanical and electronic products, instruments and other devices for use in the semiconductor industry, as well as the development, manufacture and distribution of opto-electronic and other systems based on computer technology, as well as optical systems, instruments and analyzers for lasers and other sources of short-wave emissions, including the performance of associated services activities.</p>	49,985,090,- Euro	<p>a) The company is represented by two members of the Executive Committee or by one member of the Executive Committee together with a 'Productist' (read: power management scholar).</p> <p>b) By a decision of the Board of Directors, members of the Executive Committee can be authorized to represent a third party in legal transactions with the company.</p> <p>b) Executive Committee Member: Schoch, Daniel, General director since 10/24/01, Aachen, DOB 30/11/74, authorized to represent the company together with another Executive Committee member or with a 'Productist' (see above), with the authority to execute in the name of the company legal transactions in which he represents a third party.</p>	<p>General authority together with a member of the Executive Committee or with one other Productist: Beiglbauer, Hans-Bernard, Economist, Solms Friesz, Josef, Eye-glass Ophthalmologist, Barmberg, Gerold, Instrumentalist Ophthalmologist, Lahn</p>	<p>a) Stock company By Laws of 23/07/1992 last changed on 2/5/2002</p>	<p>a) 7/25/2002 Heidke</p> <p>b) Date of first entry: 8/18/1922 This sheet has been transcribed in order to continue the records in EDP. It replaces the previous register sheet. By-laws volume 7, sheet 7, special volume</p>
2				<p>Authority expert: Benzelstein, Hans-Bernard, Economist, Solms Friesz, Josef, Eye-glass Ophthalmologist, Barmberg, Gerold, Instrumentalist Ophthalmologist, Lahn</p> <p>General authority together with a member of the Executive Committee or with one other Productist: Dr. Kellner, Thilo, Esslingen, DOB 11/19/55</p>		<p>a) 8/24/2002 Pektery</p> <p>b) Sheet 301f Special Volume</p>

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				<p>Dandachier, Raf. Aufsichting, DOB 21/05/50 Haring, Wm; Asten, DOB 02/24/49 Flurenberg, Bernat. Berlin, DOB 10/10/59</p>		
3	<p>a) Carl Zeiss SMT AG b) Wechsler</p>				<p>a) The general assembly of BZ772012 decided to change the company name and the respective entry in the by-laws §1. b) A subcontractor and prok. transfer contract was executed on 05/20/12 with Carl Zeiss. Overstocked as the superordinate entity. This was passed by a vote of the General Assembly of BZ772012. Concerning details, reference is made to said contract and the affirmative voting decisions.</p>	<p>a) 01/02/2012 Dr. Laurer-Ad b) Sheel, J. R. Voltaire Will Special Volume</p>

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Trade Register - Department B - of District Court Aachen		Sheet 1		HRB 1473-A		
Entry No.	a) Company b) Domestic c) Business Purpose	Basic Capital	Executive Committee Personally liable shareholders Managing Director Operating Managers	Procurator (Authority to sign on behalf of Company)	Legal arrangements	a) Date of entry and confirmation b) Comments
1	<p>a) Carl Zeiss SMT AG</p> <p>b) Oberkochen</p> <p>c) Development, manufacture, processing and distribution of optical, opto-electronic, precision-mechanical and electronic products, instruments and other devices for use in the semiconductor industry, as well as the development, manufacture and distribution of opto-electronic and other systems based on computer radiation, as well as optical systems, instruments and analyzes for lasers and other sources of shortwave emissions, including the performance of associated service activities.</p>	49,995,000,- Euro	<p>Executive Committee</p> <p>Daniel Schösch DOB 3/31/1974 Aalen</p> <p>Dr. Hermann Geislinger, DOB 8/28/1953 Aalen-Ehral</p>	<p>Prof. Dr. Theodor Kötter, DOB 11/19/1905, Esslingen</p> <p>Dr. Rolf Dambacher, DOB 2/16/1927, Ailingen</p> <p>Uwe Hering, DOB 8/25/1949, Aalen</p> <p>Bernd Fritzscheberg, DOB 10/19/1928, Berlin</p>	<p>Stock company</p> <p>By-laws of 23/24/1922 last changed on 8/27/2012</p> <p>The company is represented by two members of the Executive Committee or by one member of the Executive Committee together with a "Procurator" (not former management assistant).</p> <p>Members of the Executive Committee are: Daniel Schösch and Dr. Hermann Geislinger. They are authorized without restriction to represent the Company in legal transactions in which they represent a third party. § 181 BGB (second alternative)</p> <p>A subordination and profit-transfer contract was executed on 6/5/2002 with Carl Zeiss, Oberkochen as the superordinate entity. This was passed by a vote of the General Assembly of 8/27/2002. Concerning details, reference is made to said contract and the affirmative voting decisions.</p> <p>By decision of the General Assembly of February 5, 2012, the domicile of the Company is moved from Weiler to Oberkochen, and the By-Laws §§ 1, (domicile) and 14 (place of General Assembly) have been changed.</p>	<p>a) 10/28/2002</p> <p>b) Subordination and profit-transfer contract and affirmative votes, sheet 35 ff volume VIII SB</p> <p>Decision sheets 67/88 Volume VII SB</p> <p>By-Laws sheet 88/98 Volume VIII SB</p> <p>Place of business premisses: Carl-Zeiss-Strasse 22 Prekousky, AG Weizel HRB 12</p>