

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4903332

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOERI LOF	10/30/2008
HANS BUTLER	10/28/2008
SJOERD NICOLAAS LAMBERTUS DONDERS	11/04/2008
ALEKSEY YURIEVICH KOLESNYCHENKO	10/27/2008
ERIK ROELOF LOOPSTRA	11/03/2008
HENDRICUS JOHANNES MARIA MEIJER	10/28/2008
JEROEN JOHANNES SOPHIA MARIA MERTENS	10/27/2008
JOHANNES CATHARINUS HUBERTUS MULKENS	10/28/2008
ROELOF RITSEMA	10/27/2008
FRANK VAN SCHAIK	01/22/2009
TIMOTHEUS FRANCISCUS SENGERS	10/27/2008
KLAUS SIMON	10/27/2008
JOANNES THEODOOR DE SMIT	10/24/2008
ALEXANDER STRAAIJER	01/08/2009
HELMAR VAN SANTEN	11/03/2008

RECEIVING PARTY DATA

Name:	ASML Netherlands B.V.
Street Address:	De Run 6501
City:	Veldhoven
State/Country:	NETHERLANDS
Postal Code:	NL-5504 DR

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15653435

CORRESPONDENCE DATA

Fax Number: (703)770-7901

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 7037707900

Email: monet.noel@pillsburylaw.com, Docket_IP@pillsburylaw.com
Correspondent Name: PILLSBURY WINTHROP SHAW PITTMAN, LLP
Address Line 1: P.O. BOX 10500
Address Line 4: MCLEAN, VIRGINIA 22102

ATTORNEY DOCKET NUMBER: 081468-0453547

NAME OF SUBMITTER: CHRISTOPHE F. LAIR

SIGNATURE: /Christophe F. Lair/

DATE SIGNED: 04/06/2018

Total Attachments: 12

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ASSIGNMENT

In consideration of good and valuable consideration received by the ASSIGNOR(s), namely:

NAME(S) OF ASSIGNOR(S)	(1)	Joeri LOF	(2)	Hans BUTLER
	(3)	Sjoerd, Nicolaas, Lambertus DONDERS	(4)	Aleksey, Yurievich KOLESNYCHENKO
	(5)	Erik, Roelof LOOPSTRA	(6)	Hendricus, Johannes, Maria MEIJER
	(7)	Jeroen, Johannes, Sophia, Maria MERTENS	(8)	Johannes, Catharinus, Hubertus MULKENS
	(9)	Roelof RITSEMA	(10)	Frank VAN SCHAIK
	(11)	Timotheus, Franciscus SENGERS	(12)	Klaus SIMON
	(13)	Joannes, Theodoor DE SMIT	(14)	Alexander STRAAIJER
	(15)	Helmar VAN SANTEN		

the receipt and sufficiency of which are acknowledged by the ASSIGNOR(s), the ASSIGNOR(s) hereby sell(s), assign(s) and transfer(s) unto:

INSERT NAME OF ASSIGNEE and ADDRESS	ASML Netherlands B.V.
	De Run 6501
	NL-6604 DR Veldhoven
	The Netherlands

Its or their successors, assigns and legal representatives (together and individually hereinafter "ASSIGNEE") and to the extent already assigned or transferred to ASSIGNEE by operation of law or by a general obligation between the ASSIGNOR(s) and ASSIGNEE, the ASSIGNOR(s) hereby confirm(s) and formalize(s) the assignment and transfer to ASSIGNEE of, the entire and exclusive right, title and interest for all countries, regions, territories, and other jurisdictions throughout the world, in, to and under the invention(s), improvements thereof, and all patent applications (including without limitation all patent applications claiming priority and/or benefit, including without limitation all divisional, continuation, continuation-in-part, substitute, renewal and reissue applications), patents (including without limitation extensions, reissues and renewals thereof), and other intellectual property protection (including without limitation all utility models, designs and inventor certificates, and applications, extensions, renewals and reissues for the same) therefor, together with, though not in any way of limitation, all rights of priority under the International Convention for the Protection of Industrial Property and all other laws and international agreements, the right to apply for patents in ASSIGNEE's name(s), and all rights of recovery for past, present or future infringement thereof, known as

TITLE OF THE INVENTION Lithographic Apparatus and Device Manufacturing Method

for which a patent application was executed and/or filed for:

USA	November 12, 2003	US	11/710,408
Country	Date	Country abbreviation	Application number

AND the ASSIGNOR(s) hereby authorize(s) and request(s) any government agency, office or official whose duty includes issuing patents or other evidence or forms of intellectual property protection on or for the aforesaid invention(s) and application(s) (including, without limitation, all applications filed in or for China, Europe, Japan, Korea, the Netherlands, United Kingdom, Germany, France, Italy, Taiwan, Singapore and the United States), to issue the same to ASSIGNEE, as the assignee(s) of all rights, title, interests thereto and/or as the applicant(s) therefor;

AND the ASSIGNOR(s) agree(s) that the attorney of record in the aforesaid application(s) shall hereinafter act on behalf of ASSIGNEE;

AND the ASSIGNOR(s) acknowledge(s) that the aforesaid invention(s) was/were made in the framework of a specific relationship to ASSIGNEE and that in this relationship the ASSIGNOR(s) is/are bound to use specific knowledge to create inventions similar to the aforesaid invention(s);

AND the ASSIGNOR(s) acknowledge(s) that the ASSIGNOR(s)'s salary or other remuneration includes fair and reasonable compensation for the assignment hereunder of the subject matter herein assigned;

AND the ASSIGNOR(s) agree(s), without further remuneration, to communicate to ASSIGNEE any facts known to the ASSIGNOR(s) respecting the aforesaid invention(s), and all related patent applications, patents, and other intellectual property protection mentioned above, and to testify in any legal proceeding, sign any lawful papers, execute any applications, make any rightful oaths or declarations, and generally provide all assistance, cooperation and information reasonably necessary for ASSIGNEE to perfect title in, prepare, complete, prosecute, obtain, maintain, preserve, enforce and/or defend the aforesaid invention(s) and all related patent applications, patents and other intellectual property protection mentioned above, and grant(s) ASSIGNEE a perpetual and irrevocable power of attorney to execute and sign in the name(s) and on behalf of the ASSIGNOR(s) any documents of any nature in pursuit of the aforesaid;

AND the ASSIGNOR(s) agree(s) not to contest or aid in contesting the validity, enforceability or ownership of the aforesaid invention(s) and all related patent applications, patents, and other intellectual property protection mentioned above;

AND the ASSIGNOR(s) represent(s) and warrant(s) to have the full right to convey the subject matter herein assigned, to have

obtained the consent, if applicable, of all joint owners and all inventors to the subject matter assigned herein, to have not made and will not make any agreement or license in conflict herewith, and to have not encumbered and will not encumber by any grant, license or right the subject matter herein assigned;

AND the ASSIGNOR(s) has/have not disclosed and will not disclose the aforesaid invention(s) to any third party, except with the prior written consent of ASSIGNEE, prior to the date of earliest publication of the aforesaid application(s);

AND the ASSIGNOR(s) hereby authorize(s) any attorneys or other representatives of ASSIGNEE to insert hereon any further identification necessary or desirable for recordation of this document, including without limitation any applicable patent or patent application number;

AND, to the extent there is a conflict between the agreement herein and any previous agreement between ASSIGNEE and any or all of the ASSIGNOR(s), the ASSIGNOR(s) agree(s) that the agreement herein controls and supersedes any such conflicting previous agreement;


AND, where permitted by law, the ASSIGNOR(s) agree(s) that the agreement herein supersedes, modifies and/or supplements the law to the extent the agreement herein provides ASSIGNEE greater rights and protections than available under the law;

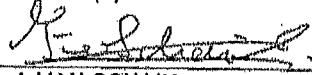
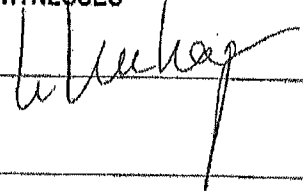
AND the ASSIGNOR(s) and ASSIGNEE irrevocably waive their rights to rescind the agreement herein, including, without limitation, on the basis of article 6: 285, 265, or 270 of the Dutch Civil Code;


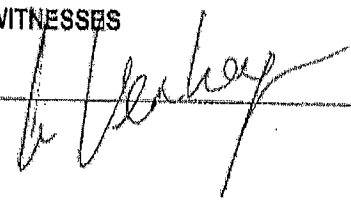
AND the ASSIGNOR(s) agree(s) that the agreement herein shall be exclusively construed under and governed by the laws of the Netherlands with the exclusion of conflicts of law rules;

AND the ASSIGNOR(s) agree(s) that any dispute arising from or in relation to the agreement herein shall be submitted to the exclusive jurisdiction and venue of the competent court in 's-Hertogenbosch, the Netherlands, unless ASSIGNEE in its sole discretion prefer(s) to submit such dispute to an arbitration, whereby the arbitral tribunal shall be composed of one arbitrator, the place of arbitration shall be within the Netherlands, and the arbitral procedure shall be conducted in the English language;

AND the ASSIGNOR(s) and ASSIGNEE agree that if any provision of the agreement herein is deemed to be unenforceable, void, illegal or invalid, it shall be modified so as to make it valid and enforceable, and as so modified the agreement herein shall remain in full force and effect.

	ASSIGNOR(S)	DATE SIGNED	WITNESSES
1)		30-10-2005	
Name:	Joeri LOE		
2)			
Name:	Hans BUTLER		
3)			
Name:	Sjoerd, Nicolaas, Lambertus DONDERS		
4)			
Name:	Aleksey, Yuriévich KOLESNYCHENKO		
5)			
Name:	Erik, Roelof LOOPSTRA		
6)			
Name:	Hendricus, Johannes, Maria MEIJER		
7)			
Name:	Jeroen, Johannes, Sophia, Maria MERTENS		
8)			
Name:	Johannes, Catharinus, Hubertus MULKENS		
9)			
Name:	Roelof RITSEMA		

	ASSIGNOR(S)	DATE SIGNED	WITNESSES
10)	 Name: <u>Frank VAN SCHAIK</u>	<u>22-1-'09</u>	
11)	Name: <u>Timotheus, Franciscus SENGERS</u>	<u> </u>	<u> </u>
12)	Name: <u>Klaus SIMON</u>	<u> </u>	<u> </u>
13)	Name: <u>Joannes, Theodoor DE SMIT</u>	<u> </u>	<u> </u>
14)	Name: <u>Alexander STRAAIJER</u>	<u> </u>	<u> </u>
15)	Name: <u>Helmar VAN SANTEN</u>	<u> </u>	<u> </u>

	ASSIGNEE	DATE SIGNED	WITNESSES
Company: Signor Name:	 <u>ASML Netherlands B.V.</u> <u>Antonius J.M. van Hoef</u> <u>Vice President and Chief IP Counsel</u>	<u>29 JUL 09</u>	

obtained the consent, if applicable, of all joint owners and all inventors to the subject matter assigned herein, to have not made and will not make any agreement or license in conflict herewith, and to have not encumbered and will not encumber by any grant, license or right the subject matter herein assigned;

AND the ASSIGNOR(s) has/have not disclosed and will not disclose the aforesaid invention(s) to any third party, except with the prior written consent of ASSIGNEE, prior to the date of earliest publication of the aforesaid application(s);

AND the ASSIGNOR(s) hereby authorize(s) any attorneys or other representatives of ASSIGNEE to insert hereon any further identification necessary or desirable for recordation of this document, including without limitation any applicable patent or patent application number;

AND, to the extent there is a conflict between the agreement herein and any previous agreement between ASSIGNEE and any or all of the ASSIGNOR(s), the ASSIGNOR(s) agree(s) that the agreement herein controls and supersedes any such conflicting previous agreement;

AND, where permitted by law, the ASSIGNOR(s) agree(s) that the agreement herein supersedes, modifies and/or supplements the law to the extent the agreement herein provides ASSIGNEE greater rights and protections than available under the law;

AND the ASSIGNOR(s) and ASSIGNEE irrevocably waive their rights to rescind the agreement herein, including, without limitation, on the basis of article 6: 285, 265, or 270 of the Dutch Civil Code;

AND the ASSIGNOR(s) agree(s) that the agreement herein shall be exclusively construed under and governed by the laws of the Netherlands with the exclusion of conflicts of law rules;

AND the ASSIGNOR(s) agree(s) that any dispute arising from or in relation to the agreement herein shall be submitted to the exclusive jurisdiction and venue of the competent court in 's-Hertogenbosch, the Netherlands, unless ASSIGNEE in its sole discretion prefer(s) to submit such dispute to an arbitration, whereby the arbitral tribunal shall be composed of one arbitrator, the place of arbitration shall be within the Netherlands, and the arbitral procedure shall be conducted in the English language;

AND the ASSIGNOR(s) and ASSIGNEE agree that if any provision of the agreement herein is deemed to be unenforceable, void, illegal or invalid, it shall be modified so as to make it valid and enforceable, and as so modified the agreement herein shall remain in full force and effect.

	ASSIGNOR(S)	DATE SIGNED	WITNESSES
1)	Name: <u>Joeri LOF</u>		
2)	Name: <u>Hans BUTLER</u>	<u>22/10/2008</u>	
3)	Name: <u>Sjoerd, Nicolaas, Lambertus DONDERS</u>		
4)	Name: <u>Aleksey, Yurievich KOLESNYCHENKO</u>		
5)	Name: <u>Erik, Roelof LOORSTRA</u>		
6)	Name: <u>Hendricus, Johannes, Maria MEIJER</u>	<u>28-10-2008</u>	
7)	Name: <u>Jeroen, Johannes, Sophia, Maria MERTENS</u>	<u>27-10-2008</u>	
8)	Name: <u>Johannes, Catharinus, Hubertus MULKENS</u>	<u>28-10-2008</u>	
9)	Name: <u>Roelof RITSEMA</u>		

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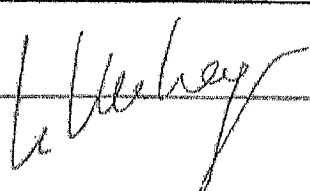
AND, where permitted by law, the ASSIGNOR(s) agree(s) that the agreement herein supersedes, modifies and/or supplements the law to the extent the agreement herein provides ASSIGNEE greater rights and protections than available under the law;

AND the ASSIGNOR(s) and ASSIGNEE irrevocably waive their rights to rescind the agreement herein, including, without limitation, on the basis of article 6: 285, 286, or 270 of the Dutch Civil Code;

AND the ASSIGNOR(s) agree(s) that the agreement herein shall be exclusively construed under and governed by the laws of the Netherlands with the exclusion of conflicts of law rules;

AND the ASSIGNOR(s) agree(s) that any dispute arising from or in relation to the agreement herein shall be submitted to the exclusive jurisdiction and venue of the competent court in 's-Hertogenbosch, the Netherlands, unless ASSIGNEE in its sole discretion prefer(s) to submit such dispute to an arbitration, whereby the arbitral tribunal shall be composed of one arbitrator, the place of arbitration shall be within the Netherlands, and the arbitral procedure shall be conducted in the English language;

AND the ASSIGNOR(s) and ASSIGNEE agree that if any provision of the agreement herein is deemed to be unenforceable, void, illegal or invalid, it shall be modified so as to make it valid and enforceable, and as so modified the agreement herein shall remain in full force and effect.

	ASSIGNOR(S)	DATE SIGNED	WITNESSES
1)	_____	_____	_____
Name:	Joeri LOF		
2)	_____	_____	_____
Name:	Hans BUTLER		
3)	_____	04-11-2008	
Name:	Sjoerd, Nicolaas, Lambertus DONDERS		
4)	_____	_____	_____
Name:	Aleksey, Yurievich KOLESNYCHENKO		
5)	_____	_____	_____
Name:	Erik, Roelof LOOPSTRA		
6)	_____	_____	_____
Name:	Hendricus, Johannes, Maria MEIJER		
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Name:	Jeroen, Johannes, Sophia, Maria MERTENS		
8)	_____	_____	_____
Name:	Johannes, Catharinus, Hubertus MULKENS		
9)	_____	_____	_____
Name:	Roelof RITSEMA		

obtained the consent, if applicable, of all joint owners and all inventors to the subject matter assigned herein, to have not made and will not make any agreement or license in conflict herewith, and to have not encumbered and will not encumber by any grant, license or right the subject matter herein assigned;

AND the ASSIGNOR(s) has/have not disclosed and will not disclose the aforesaid invention(s) to any third party, except with the prior written consent of ASSIGNEE, prior to the date of earliest publication of the aforesaid application(s);

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1)	Name: <u>Joeri LOF</u>	_____	_____
2)	Name: <u>Hans BUTLER</u>	_____	_____
3)	Name: <u>Sjoerd, Nicolaas, Lambertus DONDERS</u>	_____	_____
4)	Name: <u> Aleksey, Yurlevich KOLESNYCHENKO</u>	<u>27-10-2008</u>	_____
5)	Name: <u>Erik, Roelof LOOPSTRA</u>	_____	_____
6)	Name: <u>Hendricus, Johannes, Maria MEIJER</u>	_____	_____
7)	Name: <u>Jeroen, Johannes, Sophia, Maria MERTENS</u>	_____	_____
8)	Name: <u>Johannes, Catharinus, Hubertus MULKENS</u>	_____	_____
9)	Name: <u>Roelof RITSEMA</u>	_____	_____

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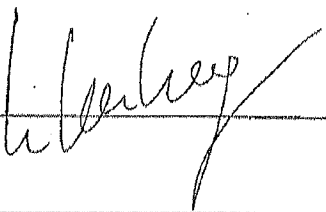
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AND the ASSIGNOR(s) and ASSIGNEE irrevocably waive their rights to rescind the agreement herein, including, without limitation, on the basis of article 6: 265, 265, or 270 of the Dutch Civil Code;

AND the ASSIGNOR(s) agree(s) that the agreement herein shall be exclusively construed under and governed by the laws of the Netherlands with the exclusion of conflicts of law rules;

AND the ASSIGNOR(s) agree(s) that any dispute arising from or in relation to the agreement herein shall be submitted to the exclusive jurisdiction and venue of the competent court in 's-Hertogenbosch, the Netherlands, unless ASSIGNEE in its sole discretion prefer(s) to submit such dispute to an arbitration, whereby the arbitral tribunal shall be composed of one arbitrator, the place of arbitration shall be within the Netherlands, and the arbitral procedure shall be conducted in the English language;

AND the ASSIGNOR(s) and ASSIGNEE agree that if any provision of the agreement herein is deemed to be unenforceable, void, illegal or invalid, it shall be modified so as to make it valid and enforceable, and as so modified the agreement herein shall remain in full force and effect.

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1) Name:	Joeri LOF		
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3) Name:	Sjoerd, Nicolaas, Lambertus DONDERS		
4) Name:	Aleksey, Yurievich KOLESNYCHENKO		
5) Name:	 Erik, Roelof LOOPSTRA	3-11-08	
6) Name:	Hendricus, Johannes, Maria MEIJER		
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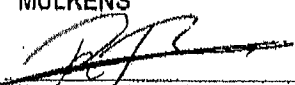
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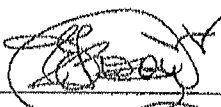

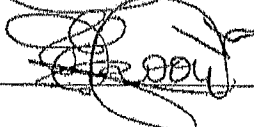
AND the ASSIGNOR(s) and ASSIGNEE irrevocably waive their rights to rescind the agreement herein, including, without limitation, on the basis of article 6: 285, 265, or 270 of the Dutch Civil Code;

AND the ASSIGNOR(s) agree(s) that the agreement herein shall be exclusively construed under and governed by the laws of the Netherlands with the exclusion of conflicts of law rules;

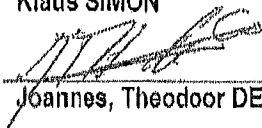
AND the ASSIGNOR(s) agree(s) that any dispute arising from or in relation to the agreement herein shall be submitted to the exclusive jurisdiction and venue of the competent court in 's-Hertogenbosch, the Netherlands, unless ASSIGNEE in its sole discretion prefer(s) to submit such dispute to an arbitration, whereby the arbitral tribunal shall be composed of one arbitrator, the place of arbitration shall be within the Netherlands, and the arbitral procedure shall be conducted in the English language;

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2)	_____	_____	_____
Name:	Hans BUTLER		
3)	_____	_____	_____
Name:	Sjoerd, Nicolaas, Lambertus DONDERS		
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Name:	Jeroen, Johannes, Sophia, Maria MERTENS		
8)	_____	_____	_____
Name:	Johannes, Catharinus, Hubertus MULKENS		
9)	_____	27-10-2008	_____
Name:	 Roelof RITSEMA		

	ASSIGNOR(S)	DATE SIGNED	WITNESSES
10)	_____	_____	_____
Name:	Frank VAN SCHAIK	_____	_____
11):	_____	_____	_____
Name:	Timotheus, Franciscus SENGERS	27-10-2008	
12)	_____	_____	_____
Name:	 Klaus SIMON	27-10-2008	
13)	_____	_____	_____
Name:	Joannes, Theodoor DE SMIT	_____	_____
14)	_____	_____	_____
Name:	Alexander STRAAIJER	_____	_____
15)	_____	_____	_____
Name:	Helmar VAN SANTEN	_____	_____


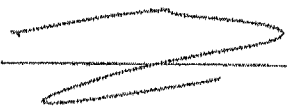
	ASSIGNEE	DATE SIGNED	WITNESSES
Company:	ASML Netherlands B.V.	_____	_____
Signor	Antonius J.M. van Hoef	_____	_____
Name:	Vice President and Chief IP Counsel	_____	_____

	ASSIGNOR(S)	DATE SIGNED	WITNESSES
10)	_____	_____	_____
Name:	Frank VAN SCHAIK		
11);	_____	_____	_____
Name:	Timotheus, Franciscus SENGERS		
12)	_____	_____	_____
Name:	Klaus SIMON		
13)	_____	_____	_____
Name:	 Joannes, Theodoor DE SMIT	24-10-2008	
14)	_____	_____	_____
Name:	Alexander STRAAIJER		
15)	_____	_____	_____
Name:	Helmar VAN SANTEN		

	ASSIGNEE	DATE SIGNED	WITNESSES
Company:	ASML Netherlands B.V.	_____	_____
Signor	Antonius J.M. van Hoef		
Name:	Vice President and Chief IP Counsel		

	ASSIGNOR(S)	DATE SIGNED	WITNESSES
10)	Frank VAN SCHAIK		
11)	Timotheus, Franciscus SENGERS		
12)	Klaus SIMON		
13)	Joannes, Theodoor DE SMIT		
14)	Alexander STRAAIJER	8 Jan 2009	
15)	Helmar VAN SANTEN		

	ASSIGNEE	DATE SIGNED	WITNESSES
Company:	ASML Netherlands B.V.		
Signor	Antonius J.M. van Hoef		
Name:	Vice President and Chief IP Counsel		

	ASSIGNOR(S)	DATE SIGNED	WITNESSES
10)	_____	_____	_____
Name:	Frank VAN SCHAIK		
11):	_____	_____	_____
Name:	Timotheus, Franciscus SENGERS		
12)	_____	_____	_____
Name:	Klaus SIMON		
13)	_____	_____	_____
Name:	Joannes, Theodoor DE SMIT		
14)	_____	_____	_____
Name:	Alexander STRAAIJER		
15)		3-11-08	
Name:	Helmar VAN SANTEN		

	ASSIGNEE	DATE SIGNED	WITNESSES
Company:	ASML Netherlands B.V.	_____	_____
Signor	Antonius J.M. van Hoef		
Name:	Vice President and Chief IP Counsel		