503503620 09/30/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3550246

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARC WILHELMUS MARIA VAN DER WIJST	01/12/2012
HANS BUTLER	01/11/2012
YIM BUN PATRICK KWAN	01/10/2012
ERIK ROELOF LOOPSTRA	01/12/2012
BERNHARD GEUPPERT	01/18/2012
MARCO HENDRIKUS HERMANUS OUDE NIJHUIS	01/11/2012
RODOLFO GUGLIELMI RABE	01/10/2012
DICK ANTONIUS HENDRIKUS LARO	01/02/2012

RECEIVING PARTY DATA

Name:	ASML NETHERLANDS B.V
Street Address:	DE RUN 6501
City:	VELDHOVEN
State/Country: NETHERLANDS	
Postal Code: NL - 5504 DR	
Name:	CARL ZEISS SMT GMBH
Name: Street Address:	CARL ZEISS SMT GMBH RUDOLF-EBER-STRASSE 2
Street Address:	RUDOLF-EBER-STRASSE 2

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14852952

CORRESPONDENCE DATA

Fax Number: (202)371-2540

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: 202 371 2600

Email: JEISENBE@skgf.com, ltillman@skgf.com

Correspondent Name: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C

Address Line 1: 1100 NEW YORK AVENUE, N.W.

PATENT

503503620 REEL: 036695 FRAME: 0918

Address Line 4: WASHINGTON, D.C. 20005	
ATTORNEY DOCKET NUMBER:	2857.2050002
NAME OF SUBMITTER:	JASON D. EISENBERG
SIGNATURE:	/Jason D. Eisenberg #43447/
DATE SIGNED:	09/30/2015

Total Attachments: 11

source=2857.2050002 assignment#page1.tif source=2857.2050002 assignment#page2.tif source=2857.2050002 assignment#page3.tif source=2857.2050002 assignment#page4.tif source=2857.2050002 assignment#page5.tif source=2857.2050002 assignment#page6.tif source=2857.2050002 assignment#page7.tif source=2857.2050002 assignment#page8.tif source=2857.2050002 assignment#page9.tif source=2857.2050002 assignment#page10.tif source=2857.2050002 assignment#page11.tif

ASSIGNMENT

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

NAME(S) OF ASSIGNOR(S)

	(1)	Marc, Wilhelmus, Maria VAN DER WIJST	(2)	Hans BUTLER
)	(3)	Yim Bun Patrick KWAN	(4)	Erik, Roelof LOOPSTRA
	(5)	Bernhard, GEUPPERT	(6)	Marco,Hendrikus,Hermanus OUDE
				NUHUIS
	(7)	Rodolfo, GUGLIELMI RABE	(8)	Dick Antonius Hendrikus LARO

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	ASML Netherlands B.V.
NAME OF	De Run 6501
ASSIGNEE and	NL-5504 DR Veldhoven
ADDRESS	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, provisional and non-provisional, (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

f		Lithographic Apparatus And Device Manufacturing Method				
for which a patent application was executed and/or filed for:						
USA	November 21, 2011	US	13/301,712			
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

PATENT

ASSIGNMENT

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

NAME(S) OF ASSIGNOR(S)

	(1)	Marc, Wilhelmus, Maria VAN DER WIJST	(2)	Hans BUTLER
)	(3)	Yim Bun Patrick KWAN	(4)	Erik, Roelof LOOPSTRA
	(5)	Bernhard, GEUPPERT	(6)	Marco, Hendrikus, Hermanus OUDE NIJHUIS
	(7)	Rodolfo, GUGLIELMI RABE	(8)	Dick Antonius Hendrikus LARO

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	Carl Zeiss SMT GmbH
NAME OF	Rudolf-Eber-Strasse 2
ASSIGNEE and	DE-73447 Oberkochen
ADDRESS	Germany

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, provisional and non-provisional, (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	E OF	THE
INVF	NTIC	N

Lithographic Apparatus And Device Manufacturing Method

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

USA	November 21, 2011	US	13/301,712	
Country	Date	Country abbreviation	Application number	

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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

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;

	ASSIGNOR(S)	DATE SIGNED
1): Name:	Marc, Wilhelms, Maria VAN DER WIJST	1)-1-2012 Date
2):		
Name:	Hans BUTLER	Date
3):		
Name:	Yim Bun Patrick KWAN	Date
4):		
Name:	Erik, Roelof LOOPSTRA	Date
5):		
Name:	Bemhard, GEUPPERT	Date
6):		
Name:	Marco,Hendrikus,Hermanus OUDE NIJHUIS	Date
7):		
Name:	Rodolfo, GUGLIELMI RABE	Date

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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.

1): Name: Marc, Wilhelmus, Maria VAN DER WIJST Date 2): Name: Hans SUTER Date 3): Name: Yim Bun Patrick KWAN Date 4): Name: Erik, Roelof LOOPSTRA Date 5): Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE Date NIJHUIS 7): Name: Rodolfo, GUGLIELMI RABE Date		ASSIGNOR(S)	DATE SIGNED
2): Name: Hans BUTLER Date 3): Name: Yim Bun Patrick KWAN Date 4): Name: Erik, Roelof LOOPSTRA Date 5): Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE NIJHUIS 7):	1):		
Name: Hans SUTLER Date 3): Name: Yim Bun Patrick KWAN Date 4): Name: Erik, Roelof LOOPSTRA Date 5): Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE Date NIJHUIS 7):	Name:	Marc, Wilhelmus, Maria VAN DER WIJST	Date
3): Name: Yim Bun Patrick KWAN Date 4): Name: Erik, Roelof LOOPSTRA Date 5); Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE Date NIJHUIS			***************************************
Name: Yim Bun Patrick KWAN Date 4): Name: Erik, Roelof LOOPSTRA Date 5): Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE Date NJHUIS	Name.	nans poster	Date
4): Name: Erik, Roelof LOOPSTRA Date 5): Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE Date 7):	3):		
Name: Erik, Roelof LOOPSTRA Date 5): Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE NIJHUIS 7):	Name:	Yim Bun Patrick KWAN	Date
5): Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE Date NIJHUIS	4):		
Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE Date NIJHUIS	Name:	Erik, Roelof LOOPSTRA	Date
6): Name: Marco, Hendrikus, Hermanus OUDE Date NIJHUIS 7):	5):		
Name: Marco, Hendrikus, Hermanus OUDE Date NJHUIS 7):	Name:	Bernhard, GEUPPERT	Date
NIJHUIS 7):	6):		
	Name:		Date
Name: Rodolfo, GUGLIELMI RABE Date	7):		
	Name:	Rodolfo, GUGLIELMI RABE	Date

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	ASSIGNOR(S)	DATE SIGNED
11):		
Name:	Marc, Wilhelmus, Maria VAN DER WIJST	Date
2):		
Name:	Hans BUTLER	Date
3):	Allen .	10 Jan. 2012
Name:	Yim Bun Patrick KWAN	Date
4):		
Name:	Erik, Roelof LOOPSTRA	Date
5):		
Name:	Bernhard, GEUPPERT	Date
6):		
Name:	Marco, Hendrikus, Hermanus OUDE NIJHUIS	Date
7):		
Name:	Rodolfo, GUGLIELMI RABE	Date

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	ASSIGNOR(S)	DATE SIGNED
1):		
Name:	Marc, Wilhelmus, Maria VAN DER WIJST	Date
2):		
Name:	Hans BUTLER	Date
3):		
Name:	Yim Bun Patrick KWAN	Date
4):	EV	12-1-2012
Name:	Erik, Roelof LOOPSTRA	Date
5):		
Name:	Bernhard, GEUPPERT	Date
6):		
Name:	Marco, Hendrikus, Hermanus OUDE NIJHUIS	Date
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1): Name: Marc, Wilhelmus, Maria VAN DER WIJST Date 2): Name: Hans BUTLER Date 3): Name: Yim Bun Patrick KWAN Date 4): Name: Erik, Roelof LOOPSTRA Date 5): Name: Bernhard, GEUPPERTI Date 6): Name: Marco, Hendrikus, Hermanus OUDE Date NIJHUIS 7): Name: Rodolfo, GUGLIELMI RABE Date	*************	ASSIGNOR(S)	DATE SIGNED
2): Name: Hans BUTLER Date 3): Name: Yim Bun Patrick KWAN Date 4): Name: Erik, Roelof LOOPSTRA Date 5): Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE Date NIJHUIS	1):		
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Name: Yim Bun Patrick KWAN Date 4): Name: Erik, Roelof LOOPSTRA Date 5): Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE NIJHUIS 7):	Name:	Hans BUTLER	Date
4): Name: Erik, Roelof LOOPSTRA Date 5): Name: Bernhard, GEUPPERT! Date 6): Name: Marco, Hendrikus, Hermanus OUDE Date 7):	3):		
Name: Erik, Roelof LOOPSTRA Date 5): Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE NIJHUIS 7):	Name:	Yim Bun Patrick KWAN	Date
Name: Bernhard, GEUPPERT/ Date 6): Name: Marco, Hendrikus, Hermanus OUDE Date 7):	4):		
Name: Bernhard, GEUPPERT Date 6): Name: Marco, Hendrikus, Hermanus OUDE Date 7):	Name:	Erik, Roelof LOOPSTRA	Date
6): Name: Marco, Hendrikus, Hermanus OUDE Date NIJHUIS 7):	5):	Bonder German	Jan 18 7012
Name: Marco,Hendrikus,Hermanus OUDE Date NIJHUIS 7):	Name:	Bernhard, GEUPPERT	Date
7):	6):		
	Name:		Date
Name: Rodolfo, GUGLIELMI RABE Date	7):		
	Name:	Rodolfo, GUGLIELMI RABE	Date

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Name:	Marc, Wilhelmus, Maria VAN DER WIJST	Date
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Name:	Hans BUTLER	Date
3):		
Name:	Yim Bun Patrick KWAN	Date
4):		
Name:	Erik, Roelof LOOPSTRA	Date
5):		
Name:	Bernhard, GEUPPERT	Date
6):	ajde Nyhur.	11/1/2012
Name:	Marco,Hendrikus,Hermanus OUDE NIJHUIS	Date
7):		
Name:	Rodolfo, GUGLIELMI RABE	Date

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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;

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
4):		
Name:	Marc, Wilhelmus, Maria VAN DER WIJST	Date
2):		
Name:	Hans BUTLER	Date
3):		
Name:	Yim Bun Patrick KWAN	Date
4):		
Name:	Erik, Roelof LOOPSTRA	Date
5):	Bernhard, GEUPPERT	Jan 10 2012
Name:	Bernhard, GEUPP#RT 1 /	Date
6):		
Name:	Marco,Hendrikus,Hermanus OUDE NUHUIS	Date
7):	Radolo G. Rach	10/01/2012
Name:	Rodolfo, GUGLIELMI RABE	Date

8:		1-5-5012
Name:	Dick Antonius Hendrikus LARO	Date
	ASSIGNEE	DATE SIGNED
Company:	ASML Netherlands B.V.	Date
Signor Name:	Antonius J.M. van Hoef Vice President and Chief IP Counsel	

ML.

8:	•••••••••••••••••••••••••••••••••••••••	
Name:	Dick Antonius Hendrikus LARO	Date
	ASSIGNEE A NO. 7.	DATE SIGNED
		26 180 12
Company:	ASML Netherlands B.V.	Date
Signor Name:	Antonius J.M. van Hoef Vice President and Chief IP Counsel	

PATENT REEL: 036695 FRAME: 0930

RECORDED: 09/30/2015