PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4821119

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAN STEVEN CHRISTIAAN WESTERLAKEN	10/11/2011
ENGELBERTUS ANTONIUS FRANSISCUS VAN DER PASCH	09/28/2011
PETER PAUL STEIJAERT	09/29/2011
FRANCISCUS VAN DE MAST	09/26/2011
GERARDUS ARNOLDUS HENDRICUS FRANCISCUS JANSSEN	09/26/2011

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:	15894223

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: 703-770-7900

Email: docket_ip@pillsburylaw.com, barbie.beavers@pillsburylaw.com

Correspondent Name: PILLSBURY WINTHROP SHAW PITTMAN, LLP

Address Line 1: PO BOX 10500

Address Line 4: MCLEAN, VIRGINIA 22102

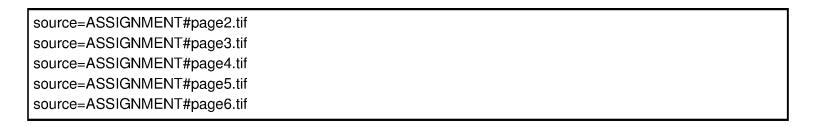
ATTORNEY DOCKET NUMBER:	081468-0457895
NAME OF SUBMITTER:	BARBIE BEAVERS
SIGNATURE:	/barbie beavers/
DATE SIGNED:	02/12/2018

Total Attachments: 6

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PATENT REEL: 044904 FRAME: 0390

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PATENT REEL: 044904 FRAME: 0391

ASSIGNMENT

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

NAME(S) OF	(1)	Jan, Steven, Christiaan WESTERLAKEN	(2)	Engelbertus, Antonius, Fransiscus
				VAN DER PASCH
ASSIGNOR(S)	(3)	Peter, Paul STEIJAERT	(4)	Franciscus VAN DE MAST
	(5)	Gerardus, Arnoldus, Hendricus,		
		Franciscus JANSSEN		

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

	FAREAR SANDER SA
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	A Lithographic Appar	atus and Device Manut	acturing Method	
	for which a patent applica	dion was executed and/or fil	ed for:	
	USA	August 22, 2011	US	13/214,289
	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 aforesald 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, little, 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 aforesald 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 aforesald 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 inevocably 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):		11-10-2011
Name:	Jan, Steven, Christiaan WESTERLAKEN	Date
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Name:	Engelbertus, Antonius, Fransiscus VAN DER PASCH	Date
3):		
Name:	Peter, Paul STEIJAERT	Date
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Name:	Franciscus VAN DE MAST	Dale
5):		
Name:	Gerardus, Arnoldus, Hendricus, Franciscus JANSSEN	Date
, Maria dia antara antara antara di antar	ASSIGNEE	DATE SIGNED
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Company:	ASML Netherlands B.V.	Date
Signor Name:	Antonius J.M. van Hoef Vice President and Chief IP Counsel	

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Name:	Jan, Steven, Christiaan WESTERLAKEN	Date
2):		28 221 8011 Date
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5):		
Name:	Gerardus, Arnoldus, Hendricus, Franciscus JANSSEN	Date
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Signor Name:	Antonius J.M. van Hoef Vice President and Chief IP Counsei	

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Name:	Engelbertus, Antonius, Fransiscus VAN DER PASCH	Date
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Name:	Peter, Paul STEIJAERT	24-04-20// Date
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Name:	Franciscus VAN DE MAST	na contract de contracte de con
5):		
Name:	Gerardus, Arnoldus, Hendricus, Franciscus JANSSEN	Date
TO THE SECTION OF THE	ASSIGNEE	DATE SIGNED

	ASSIGNEE	DATE SIGNED
Company:	ASML Netherlands B.V.	Date
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2):		
Name:	Engelbertus, Antonius, Fransiscus VAN DER PASCH	Date
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Name:	Peter, Paul STEIJAERT	Date
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Name:	Franciscus VAN DE MAST	Date
5):		
Name:	Gerardus, Arnoldus, Hendricus, Franciscus JANSSEN	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.

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	ASSIGNOR(S)	DATE SIGNED
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Name:	Jan, Steven, Christiaan WESTERLAKEN) Date
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Name:	Peter, Paul STEIJAERT	Date
4):		44400400
Name:	Franciscus VAN DE MAST	Date
5):		26 Sept 2011
Name: <	Gerardus, Arnoldus, Hendricus, Franciscus JANSSEN	Date U
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en naturalisti kanada kanada anada ana	ASSIGNEE AND AND ASSIGNEE	DATE SIGNED
Company:	ASML Netherlands B.V.	14 OX F 11 Date
Signor	Antonius J.M. van Hoef	SOUC

Vice President and Chief IP Counsel

Name: