## 504340261 04/27/2017

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4386949

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
EARL WILLIAM EBERT	08/08/2014
ABDULLAH ALIKHAN	12/10/2014
DANIEL NATHAN BURBANK	12/10/2014
DANIEL NICHOLAS GALBURT	12/03/2014
PETER A. DELMASTRO	08/08/2014
SAMIR A. NAYFEH	12/12/2014
MARK JOSEF SCHUSTER	12/01/2014
JUSTIN MATTHEW VERDIRAME	08/08/2014
CHRISTOPHER CHARLES WARD	08/12/2014

### **RECEIVING PARTY DATA**

Name:	ASML HOLDING N.V.
Street Address:	DE RUN 6501
City:	VELDHOVEN
State/Country:	NETHERLANDS
Postal Code:	5504 DR

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15438376

## **CORRESPONDENCE DATA**

504340261

**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:** jasone@skgf.com, ltillman@skgf.com

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

Address Line 1: 1100 NEW YORK AVENUE, N.W. Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER: 2857.3480007

NAME OF SUBMITTER: JASON D. EISENBERG

SIGNATURE:	/Jason D. Eisenberg #43447/		
DATE SIGNED:	04/27/2017		
Total Attachments: 10			
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#### **ASSIGNMENT**

In consideration of the sum of Ten Dollars (\$10.00) and/or other good and valuable consideration paid to the ASSIGNOR(s), namely:

NAME OF ASSIGNOR(S)

(1)	Earl, William EBERT	(2)	Abdullah ALIKHAN	
(3)	Daniel, Nathan BURBANK	(4)	Daniel, Nicholas GALBURT	
(5)	Peter A. DELMASTRO	(6)	Samir A. NAYFEH	
(7)	Mark, Josef SCHUSTER	(8)	Justin, Matthew VERDIRAME	
(9)	Christopher, Charles WARD			

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 Holding N.V.	
NAME OF	De Run 6501	
ASSIGNEE and	5504 DR Veidhoven	
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), patents (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) therefore, 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

PATTERNING DEVICE SUPPORTS, LITHOGRAPHIC APPARATUSES, AND METHODS OF CONTROLLING PATTERNING DEVICE TEMPERATURE

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

WIPO	Octobe	r 21, 2013 W	/O	PCT/EP2013/071933
Country	Date	C	ountry 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 similation, 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) therefore;

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 granif(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 United States federal law and the laws of Delaware 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 a court in the state of Connecticut or the state of Arizona in the United States of America, 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 state of Connecticut or the state of Arizona, 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
1):	Carla Chall	8/8/2014
Name:	Earl, William EBERT	Date
2):		
Name:	Abdullah ALIKHAN	Date
3):		
Name:	Daniel, Nathan BURBANK	Date
4):		
Name:	Daniel, Nicholas GALBURT	Date
5):		
Name:	Peter A. DELMASTRO	Date
6):		
Name:	Samir A. NAYFEH	Date
	***************************************	

written consent of ASSIGNEE, prior to the date of earliest publication of the aforesaid application(s);

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ASSIGNOR(S)	DATE SIGN	ILU
1):		
Name: Earl, William EBI	ERT Date	
2): Abouted	a alista Dec 10	, 2014
Name: Abdullah ALIKHA	AN Date	
3):		
Name: Daniel, Nathan B	BURBANK Date	
4):		
Name: Daniel, Nicholas	GALBURT Date	
5):		
Name: Peter A. DELMA:	STRO Date	
6):		
Name: Samir A. NAYFE	H Dale	

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	ASSIGNOR(S)	DATE SIGNED
1):		
Name:	Earl, William EBERT	Date
2):		
Name:	Abdullah ALIKHAN	Date
3}:	Pail Moderal	Dec/10/2014 Date
Name:	Daniel, Nathan BURBANK	Date
4):		
Name:	Daniel, Nicholas GALBURT	Date
5):		
Name:	Peter A. DELMASTRO	Date
6):		
Name:	Samir A. NAYFEH	Date

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	ASS/GNOR(S)	DATE SIGNED
1):		
Name:	Earl, William EBERT	Date
2):		
Name:	Abdullah ALIKHAN	Date
3):		
Name:	Daniel, Nathan BURBANK	Date
4):	Onil Nicholas Ho	J 18/3/14
Name:	Daniel, Nicholas GALBURT V	Date
5):		
Name:	Peter A. DELMASTRO	Date
6):		
Name:	Samir A. NAYFEH	Date

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1):		
Name:	Earl, William EBERT	Date
2):		
Name:	Abdullah ALIKHAN	Dale
3):		
Name:	Daniel, Nathan BURBANK	Dale
4):		
Name:	Daniel, Nicholas GALBURT	Date
5): PEA	a ADOMAG	8-Au 14
Name	Peter A. DELMASTRO	Dáte
6):		
Name:	Samir A. NAYFEH	Dale

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1):		
Name:	Earl, William EBERT	Date
2);		
Name:	Abdullah ALIKHAN	Date
3):		
Name:	Daniel, Nathan BURBANK	Date
4):		
Name:	Daniel, Nicholas GALBURT	Date
5):		
Name:	Peter A. DELMASTRO	Date
6):	h_1_	12 ner 1014
Name:	Safiir A. NAYFEH	Date

7):		12/1/12
Name:	Mark, Josef SCHUSTER	Date
8):		
Name:	Justin, Matthew VERDIRAME	Date
9):		
Name:	Christopher, Charles WARD	Date
	ASSIGNEE	DATE SIGNED
Company:	ASML Holding N.V.	Date
Signor Name:	Antonius J.M. van Hoef Vice President and Chief IP Counsel	

7):		
Name:	Mark, Josef SCHUSTER	Date
8):	the Matthew Whi	8/8/2014
Name:	Justin, Matthew VERDIRAME	Dáie .
9):		
Name:	Christopher, Charles WARD	Date
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7):		
Name:	Mark, Josef SCHUSTER	Cate
8):		
Name:	Justin, Matthew VERDIRAME	Oate
9: Clei 1000 8-12-2014		
Name:	Christopher, Charles WARD	Date

ASSIGNEE DATE SIGNED

Company: ASML Holding N.V. Date

Signor Antonius J.M. van Hoef
Name: Vice President and Chief IP Counsel