

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5483729

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
STICHTING VU	12/04/2017
STEFAN MICHIEL WITTE	11/29/2017
KJELD SIJBRAND EDUARD EIKEMA	12/05/2017
RECEIVING PARTY DATA	
Name:	ASML NETHERLANDS B.V.
Street Address:	P.O. BOX 324
City:	VELDHOVEN
State/Country:	NETHERLANDS
Postal Code:	5500 AH
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15754470
CORRESPONDENCE DATA	
Fax Number:	(202)371-2540
<i>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.</i>	
Phone:	202 371 2600
Email:	jasone@sternekessler.com, ltillman@sternekessler.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:	2857.6530001
NAME OF SUBMITTER:	JASON D. EISENBERG
SIGNATURE:	/Jason D. Eisenberg #43447/
DATE SIGNED:	04/19/2019
Total Attachments: 4	
source=2857.6530001 Assignment - Stitching VU Inventors#page1.tif	
source=2857.6530001 Assignment - Stitching VU Inventors#page2.tif	
source=2857.6530001 Assignment - Stitching VU Inventors#page3.tif	
source=2857.6530001 Assignment - Stitching VU Inventors#page4.tif	

ASSIGNMENT of IPR under the ARCNL agreement

This assignment concerns an invention and intellectual property rights (IPR) created under the agreement "The Advanced Research Centre for Nano-Lithography Cooperation" (the "ARCNL agreement", signed March 2014) to which ASML and Stichting VU are parties and in accordance to which the ASSIGNOR(s):

NAME(S) OF ASSIGNOR(S) and ADDRESSES	(1)	Stichting VU, established and existing under the laws of the Netherlands, with offices at de Boelelaan 1105, 1081 HV Amsterdam, the Netherlands ("VU")
	(2)	VU-Inventor no. 1: Stefan, Michiel WITTE
	(3)	VU-Inventor no. 2: Kjeld, Sijbrand, Eduard EIKEMA

herewith assign(s) and transfer(s) unto:

NAME OF ASSIGNEE and ADDRESS	ASML Netherlands B.V.
	P.O. Box 324
	5500 AH 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, and/or between ASSIGNORS, by operation of law or by a general obligation between the ASSIGNOR(s) and ASSIGNEE, and/or between ASSIGNORS, 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) 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 to assert claims and recover damages for past, present or future infringement thereof, known as:

TITLE OF THE INVENTION Lithographic Apparatus alignment sensor and method

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

Europe	2015-Aug-28	EP	15183058.5
Taiwan	2016-Aug-26	TW	105127588
PCT	2016-Aug-22	WO	PCT/EP2016/089776
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 therein 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 the ARCNL agreement which entitles ASML to the sole ownership of the invention;

AND VU acknowledges that it has provided the VU-Inventor(s) with a salary and/or other remuneration which include(s) a fair and reasonable compensation for the assignment hereunder of the subject matter herein assigned;

AND the VU-Inventor(s) acknowledge(s) that the received salary and/or other remuneration from VU include(s) a 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: 256, 266, 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 of Oost-Brabant, 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
VU By: <u>H.L.C. Klijberv</u> Title: <u>Director Intellectual Property</u>	<u>4 DEC 2017</u> Date
VU-Inventor no. 1 Name: <u>Stefan, Michiel WITTE</u>	_____ Date
VU-Inventor no. 2 Name: <u>Kjeld, Sijbrand, Eduard EIKEMA</u>	_____ Date

ASSIGNEE	DATE SIGNED
Company: <u>ASML Netherlands B.V.</u> Signor Name: <u>Antonius J.M. van Hoef</u> <u>Senior Vice President and Chief IP Counsel</u>	<u>08 JAN 18</u> Date

ASSIGNMENT of IPR under the ARCNL agreement

This assignment concerns an invention and intellectual property rights (IPR) created under the agreement "The Advanced Research Centre for Nano-Lithography Cooperation" (the "ARCNL agreement", signed March 2014) to which ASML and Stichting VU are parties and in accordance to which the ASSIGNOR(s):

NAME(S) OF ASSIGNOR(S) and ADDRESSES	(1)	Stichting VU, established and existing under the laws of the Netherlands, with offices at de Boelelaan 1105, 1081 HV Amsterdam, the Netherlands ("VU")
	(2)	VU-Inventor no. 1: Stefan, Michiel WITTE
	(3)	VU-Inventor no. 2: Kjeld, Sijbrand, Eduard EIKEMA

herewith assign(s) and transfer(s) unto:

NAME OF ASSIGNEE and ADDRESS	ASML, Netherlands B.V.
	P.O. Box 324
	5500 AH 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, and/or between ASSIGNORS, by operation of law or by a general obligation between the ASSIGNOR(s) and ASSIGNEE, and/or between ASSIGNORS, 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) 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 to assert claims and recover damages for past, present or future infringement thereof, known as:

TITLE OF THE INVENTION Lithographic Apparatus alignment sensor and method

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

Europe	2015-Aug-28	EP	15183058.5
Taiwan	2015-Aug-26	TW	105127588
PCT	2015-Aug-22	WO	PCT/EP2016/069776
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) 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 the ARCNL agreement which entitles ASML to the sole ownership of the invention;

AND VU acknowledges that it has provided the VU-inventor(s) with a salary and/or other remuneration which include(s) a fair and reasonable compensation for the assignment hereunder of the subject matter herein assigned;

AND the VU-inventor(s) acknowledge(s) that the received salary and/or other remuneration from VU include(s) a 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;

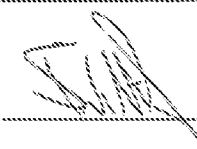
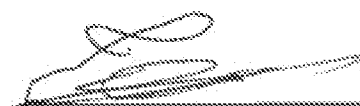
AND, where permitted by law, the ASSIGNOR(s) agree(s) that the agreement herein supersedes, modifies and/or supplements the law to the extent the agreement herein provides ASSIGNEE greater rights and protections than available under the law;

AND the ASSIGNOR(s) and ASSIGNEE irrevocably waive their rights to rescind the agreement herein, including, without limitation, on the basis of article 6: 258, 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 of Oost-Brabant, 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
VU By: Title:	 Date
VU-Inventor no. 1 Name: Stefan, Michiel WITTE	 Date 29-11-2017
VU-Inventor no. 2 Name: Kjeld, Sijbrand, Eduard EIKEMA	 Date 5-12-2017

ASSIGNEE	DATE SIGNED
Company: Signor Name:	 Date 22 DEC 17
ASML Netherlands B.V. Antonius J.M. van Hoef Senior Vice President and Chief IP Counsel	