

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3399348

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SILVIA DE DEA	06/08/2015
ALEXANDER I. ERSHOV	06/05/2015
GREGORY WILSON	06/16/2015
BRANDON VERHOFF	06/10/2015
BRUNO M. LA FONTAINE	06/10/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ASML NETHERLANDS B.V.
<b>Street Address:</b>	PO BOX 324
<b>City:</b>	VELDHOVEN
<b>State/Country:</b>	NETHERLANDS
<b>Postal Code:</b>	5500 AH
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14740916
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(412)872-9828
<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>	
<b>Phone:</b>	7037650030
<b>Email:</b>	docketing@dmipgroup.com
<b>Correspondent Name:</b>	DIBERARDINO MCGOVERN IP GROUP LLC
<b>Address Line 1:</b>	PO BOX 7126
<b>Address Line 4:</b>	ALEXANDRIA, VIRGINIA 22307
<b>ATTORNEY DOCKET NUMBER:</b>	2013P00207US02/002-120001
<b>NAME OF SUBMITTER:</b>	EDEN STRIGHT
<b>SIGNATURE:</b>	/Eden Stright/
<b>DATE SIGNED:</b>	06/16/2015
<b>Total Attachments: 5</b>	
source=tofileAssignment#page1.tif	

source=tofileAssignment#page2.tif

source=tofileAssignment#page3.tif

source=tofileAssignment#page4.tif

source=tofileAssignment#page5.tif

ASSIGNMENT OF PATENT APPLICATIONS

We, Silvia De Dea, Alexander I. Ershov, Gregory Wilson, Brandon Verhoff, and Bruno M. La Fontaine, the undersigned, (herein "Assignor") have agreed and hereby agree to assign to ASML Netherlands B.V., a Dutch corporation (hereinafter ASML), for good and valuable consideration, receipt of which is hereby acknowledged, and do hereby sell, assign and transfer to ASML, its successors and assigns, the entire right, title and interest, including the right of priority, in and to our inventions that are disclosed in:

The application for the United States patent entitled:

TRANSPORT SYSTEM FOR AN EXTREME ULTRAVIOLET LIGHT SOURCE

(I hereby authorize and request an attorney associated with Customer Number 86823 to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on June 16, 2015, as United States Application No. 14/740,916, and

and as described and/or claimed in any and all continuations, continuations-in-part (C-I-Ps), divisionals, and renewals of and substitutes for, or any other U.S. application claiming priority to, said application for said Letters Patent, and any and all Letters Patent of the United States and Letters Patent or related rights of inventors, of countries foreign thereto which may be granted thereon or therefore, or any foreign application claiming priority to said application, and any reissues, or re-examinations, or extensions of said Letters Patent and all rights granted under the Hague Convention, the Paris Convention for the Protection of Industrial Property and the Patent Cooperation Treaty.

We additionally authorize ASML to file applications in our names for Letters Patent in any country, the rights to any of the foregoing to be held and enjoyed by ASML, for its own use and behalf, and for the use and behalf of its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made;

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to ASML, its successors, assigns, nominees or legal representatives, and we agree to communicate to ASML, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-Ps, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid ASML, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by ASML;

AND we hereby authorize and request the commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to ASML, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

Dated: 6/18/2015

  
\_\_\_\_\_  
Silvia De Dea

Dated: \_\_\_\_\_

\_\_\_\_\_  
Alexander I. Ershov

Dated: \_\_\_\_\_

\_\_\_\_\_  
Gregory Wilson

Dated: \_\_\_\_\_

\_\_\_\_\_  
Brandon Verhoff

Dated: \_\_\_\_\_

\_\_\_\_\_  
Bruno M. La Fontaine

ASSIGNMENT OF PATENT APPLICATIONS

We, Silvia De Dea, Alexander I. Ershov, Gregory Wilson, Brandon Verhoff, and Bruno M. La Fontaine, the undersigned, (herein "Assignor") have agreed and hereby agree to assign to ASML Netherlands B.V., a Dutch corporation (hereinafter ASML), for good and valuable consideration, receipt of which is hereby acknowledged, and do hereby sell, assign and transfer to ASML, its successors and assigns, the entire right, title and interest, including the right of priority, in and to our inventions that are disclosed in:

The application for the United States patent entitled:

TRANSPORT SYSTEM FOR AN EXTREME ULTRAVIOLET LIGHT SOURCE

(I hereby authorize and request an attorney associated with Customer Number 86823 to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on June 16, 2015, as United States Application No. 14/740,916, and

and as described and/or claimed in any and all continuations, continuations-in-part (C-I-Ps), divisionals, and renewals of and substitutes for, or any other U.S. application claiming priority to, said application for said Letters Patent, and any and all Letters Patent of the United States and Letters Patent or related rights of inventors, of countries foreign thereto which may be granted thereon or therefore, or any foreign application claiming priority to said application, and any reissues, or re-examinations, or extensions of said Letters Patent and all rights granted under the Hague Convention, the Paris Convention for the Protection of Industrial Property and the Patent Cooperation Treaty.

We additionally authorize ASML to file applications in our names for Letters Patent in any country, the rights to any of the foregoing to be held and enjoyed by ASML, for its own use and behalf, and for the use and behalf of its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made;

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to ASML, its successors, assigns, nominees or legal representatives, and we agree to communicate to ASML, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-Ps, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid ASML, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by ASML;

AND we hereby authorize and request the commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to ASML, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

Dated: \_\_\_\_\_

\_\_\_\_\_  
Silvia De Dea

Dated: 6/15/2015

Alexander I. Ershov  
Alexander I. Ershov

Dated: \_\_\_\_\_

\_\_\_\_\_  
Gregory Wilson

Dated: \_\_\_\_\_

\_\_\_\_\_  
Brandon Verhoff

Dated: \_\_\_\_\_

\_\_\_\_\_  
Bruno M. La Fontaine

ASSIGNMENT OF PATENT APPLICATIONS

We, Silvia De Dea, Alexander I. Ershov, Gregory Wilson, Brandon Verhoff, and Bruno M. La Fontaine, the undersigned, (herein "Assignor") have agreed and hereby agree to assign to ASML Netherlands B.V., a Dutch corporation (hereinafter ASML), for good and valuable consideration, receipt of which is hereby acknowledged, and do hereby sell, assign and transfer to ASML, its successors and assigns, the entire right, title and interest, including the right of priority, in and to our inventions that are disclosed in:

The application for the United States patent entitled:

TRANSPORT SYSTEM FOR AN EXTREME ULTRAVIOLET LIGHT SOURCE

(I hereby authorize and request an attorney associated with Customer Number 86823 to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on June 16, 2015, as United States Application No. 14/740,916, and

and as described and/or claimed in any and all continuations, continuations-in-part (C-I-Ps), divisionals, and renewals of and substitutes for, or any other U.S. application claiming priority to, said application for said Letters Patent, and any and all Letters Patent of the United States and Letters Patent or related rights of inventors, of countries foreign thereto which may be granted thereon or therefore, or any foreign application claiming priority to said application, and any reissues, or re-examinations, or extensions of said Letters Patent and all rights granted under the Hague Convention, the Paris Convention for the Protection of Industrial Property and the Patent Cooperation Treaty.

We additionally authorize ASML to file applications in our names for Letters Patent in any country, the rights to any of the foregoing to be held and enjoyed by ASML, for its own use and behalf, and for the use and behalf of its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made;

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to ASML, its successors, assigns, nominees or legal representatives, and we agree to communicate to ASML, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-Ps, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid ASML, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by ASML.

AND we hereby authorize and request the commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to ASML, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

Dated: \_\_\_\_\_

\_\_\_\_\_  
Silvia De Dea

Dated: \_\_\_\_\_

\_\_\_\_\_  
Alexander I. Ershov

Dated: 6/16/15

\_\_\_\_\_  
Gregory Wilson

Dated: \_\_\_\_\_

\_\_\_\_\_  
Brandon Verhoff

Dated: \_\_\_\_\_

\_\_\_\_\_  
Bruno M. La Fontaine

ASSIGNMENT OF PATENT APPLICATIONS

We, Silvia De Dea, Alexander I. Ershov, Gregory Wilson, Brandon Verhoff, and Bruno M. La Fontaine, the undersigned (herein "Assignor") have agreed and hereby agree to assign to ASML Netherlands B.V., a Dutch corporation (hereinafter ASML), for good and valuable consideration, receipt of which is hereby acknowledged, and do hereby sell, assign and transfer to ASML, its successors and assigns, the entire right, title and interest, including the right of priority, in and to our inventions that are disclosed in

The application for the United States patent entitled

TRANSPORT SYSTEM FOR AN EXTREME ULTRAVIOLET LIGHT SOURCE

(I hereby authorize and request an attorney associated with Customer Number ~~86823~~ to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on June 16, 2015, as United States Application No. 14/740,916, and

and as described and/or claimed in any and all continuations, continuations-in-part (C-I-Ps), divisionals, and renewals of and substitutes for, or any other U.S. application claiming priority to, said application for said Letters Patent, and any and all Letters Patent of the United States and Letters Patent or related rights of inventors, of countries foreign thereto which may be granted thereon or therefore, or any foreign application claiming priority to said application, and any reissues, or re-examinations, or extensions of said Letters Patent and all rights granted under the Hague Convention, the Paris Convention for the Protection of Industrial Property and the Patent Cooperation Treaty.

We additionally authorize ASML to file applications in our names for Letters Patent in any country, the rights to any of the foregoing to be held and enjoyed by ASML, for its own use and behalf, and for the use and behalf of its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made;

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent to ASML, its successors, assigns, nominees or legal representatives, and we agree to communicate to ASML, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-Ps, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid ASML, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by ASML;

AND we hereby authorize and request the commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to ASML, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment

Dated: \_\_\_\_\_

\_\_\_\_\_  
Silvia De Dea

Dated: \_\_\_\_\_

\_\_\_\_\_  
Alexander I Ershov

Dated: \_\_\_\_\_

\_\_\_\_\_  
Gregory Wilson

Dated: 6/10/15

\_\_\_\_\_  
Brandon Verhoff

Dated: \_\_\_\_\_

\_\_\_\_\_  
Bruno M. La Fontaine

ASSIGNMENT OF PATENT APPLICATIONS

We, Silvia De Dea, Alexander I. Ershov, Gregory Wilson, Brandon Verhoff, and Bruno M. La Fontaine, the undersigned, (herein "Assignor") have agreed and hereby agree to assign to ASML Netherlands B.V., a Dutch corporation (hereinafter ASML), for good and valuable consideration, receipt of which is hereby acknowledged, and do hereby sell, assign and transfer to ASML, its successors and assigns, the entire right, title and interest, including the right of priority, in and to our inventions that are disclosed in:

The application for the United States patent entitled:

TRANSPORT SYSTEM FOR AN EXTREME ULTRAVIOLET LIGHT SOURCE

(I hereby authorize and request an attorney associated with Customer Number 96823 to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on June 16, 2015, as United States Application No. 14/740,916, and

and as described and/or claimed in any and all continuations, continuations-in-part (C-I-Ps), divisionals, and renewals of and substitutes for, or any other U.S. application claiming priority to, said application for said Letters Patent, and any and all Letters Patent of the United States and Letters Patent or related rights of inventors, of countries foreign thereto which may be granted thereon or therefore, or any foreign application claiming priority to said application, and any reissues, or re-examinations, or extensions of said Letters Patent and all rights granted under the Hague Convention, the Paris Convention for the Protection of Industrial Property and the Patent Cooperation Treaty.

We additionally authorize ASML to file applications in our names for Letters Patent in any country, the rights to any of the foregoing to be held and enjoyed by ASML, for its own use and behalf, and for the use and behalf of its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made;

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to ASML, its successors, assigns, nominees or legal representatives, and we agree to communicate to ASML, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-Ps, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid ASML, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by ASML;

AND we hereby authorize and request the commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to ASML, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

Dated: \_\_\_\_\_

\_\_\_\_\_  
Silvia De Dea

Dated: \_\_\_\_\_

\_\_\_\_\_  
Alexander I. Ershov

Dated: \_\_\_\_\_

\_\_\_\_\_  
Gregory Wilson

Dated: \_\_\_\_\_

\_\_\_\_\_  
Brandon Verhoff

Dated: 10 June, 2015

  
\_\_\_\_\_  
Bruno M. La Fontaine