#### 504229697 02/15/2017

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4276374

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ALEKSEY KOLESNYCHENKO	07/19/2004
JOHANNES JACOBUS MATHEUS BASELMANS	08/23/2004
SJOERD NICOLAAS LAMBERTUS DONDERS	08/23/2004
CHRISTIAAN ALEXANDER HOOGENDAM	08/23/2004
HANS JANSEN	08/23/2004
JEROEN JOHANNES SOPHIA MARIA MERTENS	08/23/2004
JOHANNES CATHARINUS HUBERTUS MULKENS	08/23/2004
FELIX GODFRIED PETER PEETERS	08/16/2004
BOB STREEFKERK	08/23/2004
FRANCISCUS JOHANNES HERMAN MARIA TEUNISSEN	08/23/2004
HELMAR VAN SANTEN	08/23/2004

#### **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:	15431440	

#### **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.

**Email:** diane.smyth@pillsburylaw.com

Correspondent Name: PILLSBURY WINTHROP SHAW PITTMAN, LLP

Address Line 1: P.O. BOX 10500

Address Line 4: MCLEAN, VIRGINIA 22102

**ATTORNEY DOCKET NUMBER:** 081468-0451346

PATENT REEL: 041264 FRAME: 0542

504229697

NAME OF SUBMITTER:	JEAN-PAUL G. HOFFMAN
SIGNATURE:	/Jean-Paul G. Hoffman/
DATE SIGNED:	02/15/2017
Total Attachments: 5	·
source=0451346#page1.tif	
source=0451346#page2.tif	
source=0451346#page3.tif	
source=0451346#page4.tif	
source=0451346#page5.tif	

#### USA Patent Appln. Sole or Joint

Atty, Dkt. P 309 196 M# Client Ref.

Olicini

# ASSIGNMENT OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

	(1) KOLESNYCHENKO, Aleksey	(2) BASELMANS, Johannes Jacobus Matheus			
AME(S) OF	(3) DONDERS, Sjoerd Nicolaas Lambertus	(4) HOOGENDAM, Christiaan Alexander			
NVENTOR(S)	(5) JANSEN, Hans				
ne receipt and nd transfer(s)		e undersigned who at the request of, hereby sell(s), assign(s)			
NSERT	ASML NETHERLANDS B.V.				
IAME(S) OF	DE RUN 6501	DE RUN 6501			
SSIGNEE(S)	NL-5504 DR VELDHOVEN				
ADDRESS(ES	THE NETHERLANDS				
		America as defined in 35 U.S.C. 100, in the invention and all applications including			
ny and all divisions,	continuations, substitutes, and reissues thereof; and all resulting patent	ь, кноwн as			
ITLE OF	LITHOGRAPHIC APPARATUS AND DEVICE	MANUFACTURING METHOD			
VVENTION					
	for which the undersigned executed an applica	ation for Letters Patents of the United States of America:			
	(A) [7]				
<u>IOTE</u> → → Complete	(A) ☐ even date herewith (B) ☐ on				
•					
ne A Rand/or	\', \_	filed APRII 14 2004			
ne A, B and/or	· / —	filed APRIL 14, 2004			
. ,	C) (C) in U.S. Appln. No. 10/823,777  AND the undersigned hereby authorize(s) and request(s) the United	States Commissioner of Patents and Trademarks to issue said Letters Patent to the			
aid ASSIGNEE, for	C) (C) in U.S. Appln. No. 10/823,777  AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representational of said ASSIGNEE;	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall			
aid ASSIGNEE, for ereinafter act on be	C) (C) in U.S. Appln. No. 10/823,777  AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representated of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any page.	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed			
aid ASSiGNEE, for ereinafter act on be seential by ASSIGN OTE → →	AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representa shalf of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any paget to ASSIGNEE's full protection and title in and to the invention hereby. The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the a	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed			
aid ASSIGNEE, for ereinafter act on be ssential by ASSIGN	AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representa shalf of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any paget to ASSIGNEE's full protection and title in and to the invention hereby. The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the a	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed transferred.			
aid ASSIGNEE, for ereinafter act on be seential by ASSIGNOTE $\rightarrow$ coordation of this do	AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representa shalf of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any paget to ASSIGNEE's full protection and title in and to the invention hereby. The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the a	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed transferred.  bove address to insert hereon any further identification necessary or desirable for   DATE SIGNED WITNESSES			
aid ASSIGNEE, for ereinafter act on be seential by ASSIGN OTE $\rightarrow$ cordation of this do	AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representated of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any paper to ASSIGNEE's full protection and title in and to the invention hereby. The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the accument.  VENTORS	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed transferred.  bove address to insert hereon any further identification necessary or desirable for  DATE SIGNED  79-07-0004  WITNESSES			
aid ASSIGNEE, for ereinafter act on be seential by ASSIGN OTE $\rightarrow$ cordation of this do	AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representa shalf of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any paget to ASSIGNEE's full protection and title in and to the invention hereby. The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the acument.	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed transferred.  bove address to insert hereon any further identification necessary or desirable for  DATE SIGNED  79-07-0004  WITNESSES			
aid ASSIGNEE, for ereinafter act on be seential by ASSIGNOTE $\rightarrow$ coordation of this do	AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representated of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any paper to ASSIGNEE's full protection and title in and to the invention hereby. The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the accument.  VENTORS  OLESNYCHENKO, Aleksey	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed transferred.  bove address to insert hereon any further identification necessary or desirable for  DATE SIGNED 19-07-0004  WITNESSES			
aid ASSIGNEE, for ereinafter act on be seential by ASSIGNOTE $\rightarrow$ coordation of this do	AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representated of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any paper to ASSIGNEE's full protection and title in and to the invention hereby. The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the accument.  VENTORS	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed transferred.  bove address to insert hereon any further identification necessary or desirable for  DATE SIGNED 19-07-0004  WITNESSES			
aid ASSIGNEE, for ereinafter act on be seential by ASSIGN OTE $\rightarrow$ coordation of this do   INT	AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representated of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any page to ASSIGNEE'S full protection and title in and to the invention hereby. The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the acument.  VENTORS  OLESNYCHENKO, Aleksey  ASELMANS, Johannes Jacobus Matheus	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed transferred.  bove address to insert hereon any further identification necessary or desirable for  DATE SIGNED  79-07-0004  WITNESSES			
aid ASSIGNEE, for ereinafter act on be seential by ASSIGN OTE $\rightarrow$ coordation of this do   INT	AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representated of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any paper to ASSIGNEE's full protection and title in and to the invention hereby. The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the accument.  VENTORS  OLESNYCHENKO, Aleksey	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed transferred.  bove address to insert hereon any further identification necessary or desirable for  DATE SIGNED  79-07-0004  WITNESSES			
aid ASSIGNEE, for ereinafter act on be seential by ASSIGNOTE $\rightarrow$ coordation of this do   INT	AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representated of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any paper to ASSIGNEE's full protection and title in and to the invention hereby. The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the accument.  WENTORS  OLESNYCHENKO, Aleksey  ASELMANS, Johannes Jacobus Matheus  ONDERS, Sjoerd Nicolaas Lambertus	States Commissioner of Patents and Trademarks to issue said Letters Patent to the rives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed transferred.  bove address to insert hereon any further identification necessary or desirable for  DATE SIGNED  79-07-0004  WITNESSES			
aid ASSIGNEE, for ereinafter act on be seential by ASSIGNOTE $\rightarrow$ coordation of this do   INT	AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representated of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any page to ASSIGNEE'S full protection and title in and to the invention hereby. The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the acument.  VENTORS  OLESNYCHENKO, Aleksey  ASELMANS, Johannes Jacobus Matheus	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed transferred.  bove address to insert hereon any further identification necessary or desirable for  DATE SIGNED 19-07-0004  WITNESSES			
id ASSIGNEE, for ereinafter act on be seential by ASSIGN OTE   cordation of this do     INT	AND the undersigned hereby authorize(s) and request(s) the United its interest as ASSIGNEE, its successors, assigns and legals representated of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any paper to ASSIGNEE's full protection and title in and to the invention hereby. The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the accument.  WENTORS  OLESNYCHENKO, Aleksey  ASELMANS, Johannes Jacobus Matheus  ONDERS, Sjoerd Nicolaas Lambertus	States Commissioner of Patents and Trademarks to issue said Letters Patent to the ives; the undersigned agree(s) that the attorney of record in said application shall ers for ASSIGNEE, its successors, assigns and legal representatives, deemed transferred.  bove address to insert hereon any further identification necessary or desirable for  DATE SIGNED 19-07-0004  WITNESSES			

N\_VIRGINIA\_30464155\_1.DOC

PAT-114 1/00

Pillsbury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, VA 22102

USA Patent Appin. Sole or Joint

.

Atty. Dkt. P 309196

P-1851.000-US Client Ref.

NONPROVISIONAL

# ASSIGNMENT OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT	(1) KOLESNYCHENKO, Aleksey	(2) BASELMANS, Jo	phannes Jacobus Matheus	
NAME(S) OF	(3) DONDERS, Sjoerd Nicolaas Lambertus	(4) HOOGENDAM, C	Christiaan Alexander	
INVENTOR(S)	(5) JANSEN, Hans	x box if continue		
the receipt and s and transfer(s) u	sufficiency of which are hereby acknowledged by the nto:			
INSERT	ASML NETHERLANDS B.V.	•		
NAME(S) OF	DE RUN 6501			
ASSIGNEE(S)				
& ADDRESS(ES)	THE NETHERLANDS			
			·	
(hereinafter designated any and all divisions, co TITLE OF INVENTION	"ASSIGNEE") the entire right, title and interest for the United States of antinuations, substitutes, and reissues thereof; and all resulting patents,  LITHOGRAPHIC APPARATUS AND DEVICE N	MANUFACTURING MET	HOD	
	for which the undersigned executed an applicati	ion for Letters Patents o	f the United States of America:	
NOTE → → (Complete	(A) ☐ even date herewith (B) ☐ on			
line A, B and/or C	(C) M in U.S. Appln. No. 10/823,777	filed	APRIL 14, 2004	
AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legals representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;  AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE's full protection and title in and to the invention hereby transferred.  NOTE  The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.				
	NTORS	DATE SIGNED	WITNESSES	
1):	Petriculativo Aldress	<u> </u>		
	ESNYCHENKO, Aleksey		ina FRanch	
2)	aseman	August 23, 20	004 NOULUN Annemiek van den Bergh	
	ELMANS, Johannes Jacobus Matheus		Annemiek van den Bergh	
3)	DEDO Circul Nicoland I I	August 23, 20	104 Falserein	
	PERS, Sjoerd Nicolaas Lambertus		Annemiek van den Bergh	
4)	CALD M. Objection Alexander	August 23, 20		
	GENDAM, Christiaan Alexander	T 02 04	Annemiek van den Bergh	
5)		August 23, 20	104 Hadergh	
Name: JAN	EN, Hans		Annemiek van den Bergh	

N\_VIRGINIA\_30464155\_1.DOC

PAT-114 1/00

(Continued from page 1)

## LISTING OF ADDITIONAL INVENTORS

INSERT NAME(S) OF INVENTOR(S)

(6) MERTENS, Jeroen Johannes Sophia Maria	(7) MULKENS, Johannes Catharinus Hubertus
(8) PEETERS, Felix Godfried Peter	(9) STREEFKERK, Bob
(10) TEUNISSEN, Franciscus Johannes Herman Maria	(11) VAN SANTEN, Helmar
(12)	(13)
(14)	(15)

# SIGNATURES OF ADDITIONAL INVENTORS/WITNESSES/DATES SIGNED

INVENTORS /	DATE SIGNED WITNESSES	
merca	August 23, 2004	
MERTENS, Jeroen Johannes Sophia Maria	Annemiek van den Berg	ŗh
	August 23, 2004 12 000	
MULKENS, Johannes Catharinus Hubertus	Annemiek van den Berg	ſh
	August 23, 2004	
PEETERS, Felix Godfried Peter	Annemiek van den Berg	ſμ
all.	August 23, 2004   A COUN	٦.
STREEKER BOD	Annemiek van den Berg	ŗ
41111	_ August 23, 2004   A XXV	
TEUNISSEN, Franciscus Johannes Herman Maria	Annemiek van den Berg	ξħ
VAN SANTEN, Helmar		
		•

PAT-114 1/00

## **ASSIGNMENT**

(Continued from page 1)

## LISTING OF ADDITIONAL INVENTORS

INSERT NAME(S) OF INVENTOR(S)

(6) MERTENS, Jeroen Johannes Sophia Maria	(7) MULKENS, Johannes Catharinus Hubertus
(8) PEETERS, Felix Godfried Peter	(9) STREEFKERK, Bob
(10) TEUNISSEN, Franciscus Johannes Herman Maria	(11) VAN SANTEN, Helmar
(12)	(13)
(14)	(15)

# SIGNATURES OF ADDITIONAL INVENTORS/WITNESSES/DATES SIGNED

INVENTORS	DATE SIGNED	WITNESSES
MERTENS, Jeroen Johannes Sophia Maria		
MULKENS, Johannes Catharinus Hubertus	16-08-2004	GBCRQh
PEETERS, Felix Godfried Peter	A	nnemiek van den Berg
STREEFKERK, Bob		
TEUNISSEN, Franciscus Johannes Herman Maria		
VAN SANTEN, Heimar		

PAT-114 1/00

D&A P-1851,000-US -1-

# (Continued from page 1)

### LISTING OF ADDITIONAL INVENTORS

INSERT NAME(S) OF INVENTOR(S)

(6) MERTENS, Jeroen Johannes Sophia Maria	(7) MULKENS, Johannes Catharinus Hubertus	
(8) PEETERS, Felix Godfried Peter	(9) STREEFKERK, Bob	
(10) TEUNISSEN, Franciscus Johannes Herman Maria	(11) VAN SANTEN, Helmar	
(12)	(13)	
(14)	(15)	

## SIGNATURES OF ADDITIONAL INVENTORS/WITNESSES/DATES SIGNED

<u>INVENTORS</u>	DATE SIGNED	WITNESSES
MERTENS, Jeroen Johannes Sophia Maria		
MULKENS, Johannes Catharinus Hubertus		
PEETERS, Felix Godfried Peter		
STREEFKERK, Bob		
TEUNISSEN, Franciscus Johannes Herman Maria	August 23, 200	4 ABORAL
VAN SANTEN, Helmar	Ār	nnemiek van-den l

30464155\_1.DOC PAT-114 1/00