

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3344835

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	MARCO JAN-JACO WIELAND	11/24/2014
	WILLEM HENK URBANUS	11/24/2014
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	MAPPER LITHOGRAPHY IP B.V.	
<b>Street Address:</b>	COMPUTERLAAN 15	
<b>City:</b>	DELFT	
<b>State/Country:</b>	NETHERLANDS	
<b>PROPERTY NUMBERS Total: 2</b>		
	<b>Property Type</b>	<b>Number</b>
	<b>Application Number:</b>	14541233
	<b>PCT Number:</b>	EP2014074679
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<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>Email:</b>	mcgeem@hoyngmonegier.com	
<b>Correspondent Name:</b>	MIKE MCGEE	
<b>Address Line 1:</b>	REMBRANDT TOWER, 31ST FL. AMSTELPLEIN 1	
<b>Address Line 4:</b>	AMSTERDAM, NETHERLANDS 1096 HA	
<b>ATTORNEY DOCKET NUMBER:</b>	03147.0106.USN1	
<b>NAME OF SUBMITTER:</b>	DAVID P. OWEN	
<b>SIGNATURE:</b>	/d p owen/	
<b>DATE SIGNED:</b>	05/08/2015	
<b>Total Attachments: 7</b>		
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COMBINED INVENTOR DECLARATION AND ASSIGNMENT TO APPLICANT

Title of Invention:

MULTI-ELECTRODE ELECTRON OPTICS

As a below-named Inventor (also designated as "the undersigned"), I hereby declare that:

DECLARATION (37 CFR 1.63)  
FOR UTILITY OR DESIGN APPLICATION  
USING AN APPLICATION DATA SHEET (37 CFR 1.76)

This declaration is directed to the application(s) listed in the SCHEDULE below:

SCHEDULE

Country	Application No.	Filing Date
United States of America	61/904,057	14 November 2013
	14/541,233	14 November 2014
United States of America		
	PCT/EP2014/074679	14 November 2014
PCT (international application)		
	2013817	14 November 2014
The Netherlands		

The application(s) identified in the SCHEDULE was/were made or authorized to be made by me

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application(s) identified in the SCHEDULE.

I acknowledge the duty to disclose information which is material to patentability before the U.S. Patent Office as defined in 37 CFR 1.56.

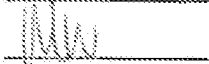
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNMENT

Initials Inventors

 -1-

Initials Assignee



WHEREAS:-

(A) The undersigned is/are the inventor(s) of the invention(s) for which patent protection has been applied for in the form of the patent application(s) listed in the SCHEDULE; and

(B) The undersigned has/have agreed to assign to **MAPPER LITHOGRAPHY IP B.V., Computerlaan 15, 2628 XK Delft, The Netherlands** (the Assignee) all right, title and interest in the invention(s) and in any and all applications filed thereon, throughout the world and in particular in the United States of America (as defined in 35 U.S.C. 100) and any territories indicated in the SCHEDULE, including the right to apply for the grant of patents together with the right to apply for the grant of any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) arising from the invention(s); the right to claim convention priority, the right to be granted patents along with extensions and renewals thereof, and the right to enforce any patent(s) granted for the invention(s) to the full end of the term(s) for which such patent(s) issue, including all claims, if any, that may have arisen for infringement prior to the date of assignment, such entire right, title and interest to be held and enjoyed by the Assignee to the same extent as they would have been held and enjoyed by the undersigned had the assignment and sale not been made.

(C) The undersigned further agreed to assign any copyright, design right, know how, or other intellectual property rights associated with the invention(s) to the Assignee(s).

NOW THEREFORE, in consideration of the sum of One Euro paid by the Assignee(s) to the undersigned and/or other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned hereby confirms/confirm effective of the filing date(s) indicated in SCHEDULE to have sold, assigned, and transferred, and to the extent not already done so, do hereby sell, assign, and transfer, all of the rights set out under (A), (B) and (C) above to the Assignee(s).

The undersigned agrees/agree to promptly take any action, including the execution of any papers and the provision of any evidence, required by the Assignee(s) or its/their agent(s) to further the grant of any patent application(s) associated with the invention(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, re-examination or corresponding application(s) filed therefrom, and the subsequent maintenance and enforcement of any patent(s) granted on such application(s), and to execute separate assignment(s) in connection with such application(s) as the Assignee(s) may deem necessary or expedient.

The undersigned agrees/agree to execute all papers necessary in connection with any interference proceedings that may be declared in the United States of America concerning any patent application(s), patent(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or re-examination application(s) associated therewith, and to cooperate with the Assignee(s) in every way possible in obtaining evidence and going forward with such interference.

The undersigned agrees/agree to promptly take any action, including the execution of any papers, required by the Assignee(s) or its/their agent(s) in order to record this assignment document in any national/regional/international intellectual property register throughout the world.

The undersigned hereby represents/represent that at the time of conveyance he/she/they had the full right to convey the entire right, title and interest so assigned, and that the undersigned has not executed and will not execute, any agreement in conflict herewith.

Initials Inventors



-2-

Initials Assignee



It is hereby agreed that the terms of this assignment shall be interpreted under the laws of The Netherlands and disputes arising under this agreement shall be adjudicated before the courts in The District Court of The Hague, The Netherlands.

The undersigned hereby grants power to insert in this document any further identification that may be necessary or desirable in order to comply with the rules for recordation of this document, in particular in the United States Patent and Trademark Office to:

David P. Owen, USPTO Reg. No. 43,344; Minerva Rivero, USPTO Reg. No. 65,979; Wilbert H. P. Derks EPO Reg No. 100038986; Jeroen H. J. Den Hartog EPO Reg No. 100059970; Christopher J. Pierce EPO Reg No. 09218580; Maarten Mooij EPO Reg No. 09226770; Michiel A. De Baat EPO Reg No. 23539; Niels J. Zeiders EPO Reg No. 9254020; each an attorney or agent with the law firm of HOYNG MONEGIER LLP.

Initials Inventors



-3-

Initials Assignee



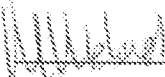
IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite their name(s).

**SIGNATURE OF ASSIGNEE (MAPPER LITHOGRAPHY IP B.V.)**

Name: Marco Jan Jace Wieland

Title: CTO

Date: 24 (day) 11 (month) 2014 (year)

Signature: 

**STATEMENT OF WITNESS:**

Signed at Delft (city) the Netherlands (country)

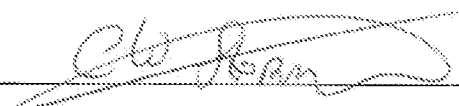
On 24 (day) November (month) 2014 (year)



I, Conny Storm, whose full residence address is  
Leen van Watersinge Veld 1142, 2548 CT The Hague

was personally present and did see the person named above, execute the above assignment

on 24 (day) November (month) 2014 (year)

and such person is personally known to me to be the person described in this assignment.

Signature: 

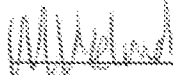
Initials Inventors  -4-  
Initials Assignee 

IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite their name(s).

**SIGNATURE OF INVENTOR:**

Name **Marco Jan-Jaco WIELAND**

Date: 24 (day) 11 (month) 2014 (year)

Signature: 

**STATEMENT OF WITNESS:**

Signed at Delft (city) the Netherlands (country)

On 24 (day) November (month) 2014 (year)

I, Conny Storm, whose full residence address is  
Laan van Wateringen Veld 142, 2544 CT The Hague

was personally present and did see the person named above, execute the above assignment

on 24 (day) November (month) 2014 (year)

and such person is personally known to me to be the person described in this assignment

Signature: 

Initials Inventors MW CS -5-

Initials Assignee MW

IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite their name(s).

SIGNATURE OF INVENTOR:

Name **Willem Henk URBANUS**

Date: 24 (day) 11 (month) 2014 (year)

Signature: 

STATEMENT OF WITNESS:

Signed at Delft (city) the Netherlands (country)

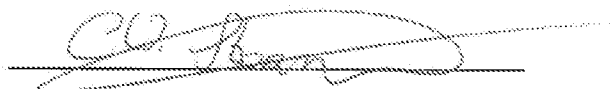
On 24 (day) November (month) 2014 (year)


I, Conny Storm, whose full residence address is  
Lara van Waterings Veld 1142 2548 CT The Hague

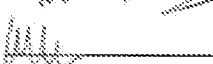
was personally present and did see the person named above, execute the above assignment

on 24 (day) November (month) 2014 (year)

and such person is personally known to me to be the person described in this assignment.

Signature: 

Initials Inventors 

Initials Assignee 

Docket No: 03147.0106.USN1  
Client Reference: M123A

Patent

INVENTOR (Full Legal Name)	City, country (Residence)	Mailing address	Citizenship
Marco Jan-Jaco WIELAND	Delft, The Netherlands	Computerlaan 15, 2628 XK, Delft, The Netherlands	NL
Willem Henk URBANUS	Culemborg, The Netherlands	Computerlaan 15, 2628 XK, Delft, The Netherlands	NL

Initials Inventors

Initials Assignee