

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
<b>CONVEYING PARTY DATA</b>																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Marco Jan-Jaco WIELAND</td> <td>01/30/2012</td> </tr> <tr> <td>Teunis VAN DE PEUT</td> <td>01/26/2012</td> </tr> <tr> <td>Alexander Hendrik Vincent VAN VEEN</td> <td>01/13/2012</td> </tr> <tr> <td>Remco JAGER</td> <td>01/23/2012</td> </tr> <tr> <td>Stijn Willem Herman Karel STEENBRINK</td> <td>01/24/2012</td> </tr> <tr> <td>Ralph VAN MELLE</td> <td>01/19/2012</td> </tr> <tr> <td>Henk DERKS</td> <td>01/24/2012</td> </tr> </tbody> </table>		Name	Execution Date	Marco Jan-Jaco WIELAND	01/30/2012	Teunis VAN DE PEUT	01/26/2012	Alexander Hendrik Vincent VAN VEEN	01/13/2012	Remco JAGER	01/23/2012	Stijn Willem Herman Karel STEENBRINK	01/24/2012	Ralph VAN MELLE	01/19/2012	Henk DERKS	01/24/2012
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Henk DERKS	01/24/2012																
<b>RECEIVING PARTY DATA</b>																	
Name:	MAPPER LITHOGRAPHY IP B.V.																
Street Address:	Computerlaan 15																
City:	Delft																
State/Country:	NETHERLANDS																
Postal Code:	2628 XK																
<b>PROPERTY NUMBERS Total: 1</b>																	
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13281559</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13281559												
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<b>CORRESPONDENCE DATA</b>																	
Fax Number:	(012)345-6789																
Email:	mcgeem@hoyngmonegier.com																
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																	
Correspondent Name:	Hoynng Monegier LLP																
Address Line 1:	Rembrandt Tower, 31st Fl, Amstelplein 1																
Address Line 4:	Amsterdam, NETHERLANDS 1096 HA																
ATTORNEY DOCKET NUMBER:	03147.0080.USN0																

CH \$40.00 13281559

NAME OF SUBMITTER:

David P. Owen

**Total Attachments: 12**

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ASSIGNMENT BETWEEN:

WIELAND, Marco Jan-Jaco  
Boeroestraat 23  
2612 GD Delft  
The Netherlands

and

VAN DE PEUT, Teunis  
Galicië 14  
3831 JD Leusden  
The Netherlands

and

VAN VEEN, Alexander Hendrik Vincent  
Stadhoudersplein 27c  
3039 ER Rotterdam  
The Netherlands

and

JAGER, Remco  
Wijnbrugstraat 239  
3011 XW ROTTERDAM  
The Netherlands

and

STEENBRINK, Stijn Willem Herman Karel  
Gerard Reijnststraat 14  
2593 EC Den Haag  
The Netherlands

and

VAN MELLE, Ralph  
Achterdijk 4  
3223 LA Hellevoetsluis  
The Netherlands

and

- 1 -

Initials Assignor(s) Wieland RvM Jager Steenbrink Van de Peut Van Veen

Initial Assignees(s) Van Melle

DERKS, Henk  
Varendonk 45  
5583 GR WAALRE  
The Netherlands

("the Assignor(s)")

and:

MAPPER LITHOGRAPHY IP B.V.  
Computerlaan 15  
2628 XK Delft  
The Netherlands

("the Assignee(s)")

**WHEREAS:-**

(A) The Assignor is the inventor of the Invention known as **MODULATION DEVICE AND CHARGED PARTICLE MULTI-BEAMLET LITHOGRAPHY SYSTEM USING THE SAME** for which patent protection has been applied for in the form of the patent application as listed in the schedule below.

(B) The Assignor agreed to assign to the Assignee all right, title and interest in the Invention 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 below, 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 applications arising from the Invention, the right to claim convention priority, the right to be granted patents along with extensions and renewals thereof and the right to enforce any patents granted for the Invention to the full end of the terms for which such patents 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 Assignor had the assignment and sale not been made.

(C) The Assignor(s) further agreed to assign any copyright, design right, know how, or other intellectual properties associated with the Invention(s) to the Assignee(s).

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Initials Assignor(s) Derks RvM GBS D. P MW

Initial Assignees(s) MW

**NOW THEREFORE**, in consideration of the good and valuable sum of EURO 1.00 and other good and valuable consideration paid by the Assignee(s) to the Assignor(s), the receipt of which is hereby acknowledged, the Assignor(s) hereby confirms/confirm effective of **26 October 2010** 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 Assignor(s) 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 Assignor(s) 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 Assignor(s) 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 Assignor(s) 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.

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 David P. Owen, USPTO Reg. No. 43,344; Coraline J. Haitjema, USPTO Reg. No. 63,192; Sam Bergstrom USPTO Reg. No. 62,103; Wilbert H. P. Derks EPO Reg No. 100038986; Matthew J. Hampton EPO Reg No. 100051409; Jeroen H. J. Den Hartog EPO Reg No. 100059970; Christopher J. Pierce EPO Reg No. 09218580; Maarten Mooij EPO Reg No. 09226770;

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Initials Assignor(s)

*Archer RvM KJ [Signature] P MW*

Initial Assignees(s)

*MW*

each an attorney or agent with the law firm of HOYNG MONEGIER LLP, power to insert in this Assignment 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.

**SCHEDULE**

Country	Application No.	Filing Date
United States of America	61/406,675	26 October 2010
United States of America	61/477,228	20 April 2011
United States of America	61/479,263	26 April 2011
United States of America	13/281,559	26 October 2011
PCT (including all designated/elected states and regions)	PCT/EP2011/068803	26 October 2011
Taiwan	100139031	26 October 2011

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Initials Assignor(s) *A. Van Ruyt R. J. B. P. M. W.*

Initial Assignees(s) *M. W.*

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

SIGNATURE OF ASSIGNEE: M. Wieland  
MAPPER LITHOGRAPHY IP B.V.  
Name Marco Jan Jacob Wieland  
Title CTO  
Date: 30/1/2012 (dd.mm.yyyy)

STATEMENT OF WITNESS:

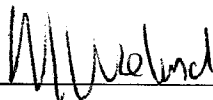
Signed at Delft (city) Netherlands (country)  
on 30 (day) January (month) 2012 (year)  
I, Conny Storm whose full residence address is  
LAAN VAN WATERINGSE VELD 1142, 2548 CT  
DEN HAAG, The Netherlands  
was personally present and did see the person named above, Marco Wieland  
execute the above assignment on 30 (day)  
January (month) 2012 (year), and such assignor is personally  
known to me to be the person described in this assignment.

[Signature]  
Signature of Witness

- 5 -  
Initials Assignor(s) A. van Ruyt R. J. [Signature] M. W.  
Initial Assignees(s) MW

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

SIGNATURE OF ASSIGNOR:



WIELAND, Marco Jan-Jaco

Date: 30/1/2012 (dd.mm.yyyy)

STATEMENT OF WITNESS:

Signed at Delft (city) Netherlands (country)

on 30 (day) January (month) 2012 (year)

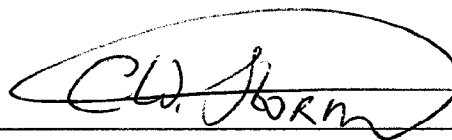
I, Conny Storm whose full residence address is  
Laan van Watwingse Veld 1142, 2548 CT  
Den Haag, The Netherlands

was personally present and did see the person named above, Marco Wieland

execute the above assignment on 30 (day)

January (month) 2012 (year), and such assignor is personally

known to me to be the person described in this assignment.

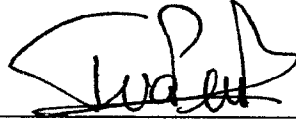


Signature of Witness



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

SIGNATURE OF ASSIGNOR:



VAN DE PEUT, Teunis

Date: 26/01/2012 (dd.mm.yyyy)

STATEMENT OF WITNESS:

Signed at Delft (city) Netherlands (country)

on 26 (day) January (month) 2012 (year)

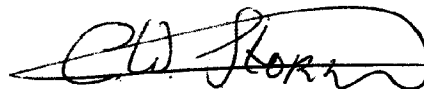
I, Conny Storm whose full residence address is  
Laan van Wateringse Veld 1142, 2548 CT  
Den Haag, The Netherlands

was personally present and did see the person named above, Teunis van de

Peut, execute the above assignment on 26 (day)

January (month) 2012 (year), and such assignor is personally

known to me to be the person described in this assignment.



Signature of Witness

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

SIGNATURE OF ASSIGNOR:

*A. Veen*

VAN VEEN, Alexander Hendrik Vincent

Date: 13/1/2012 (dd.mm.yyyy)

STATEMENT OF WITNESS:

Signed at Delft (city) Netherlands (country)

on 13 (day) January (month) 2012 (year)

I, Conny Storm whose full residence address is  
Laan van Wateringse Veld 1142, 2548 CT,  
De Haag, The Netherlands

was personally present and did see the person named above, Alexander

Van Veen execute the above assignment on 13 (day)

January (month) 2012 (year), and such assignor is personally

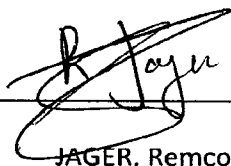
known to me to be the person described in this assignment.

*C.W. Storm*

Signature of Witness

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

SIGNATURE OF ASSIGNOR:



JAGER, Remco

Date: 23-Jan-2012 (dd.mm.yyyy)

STATEMENT OF WITNESS:

Signed at Delft (city) Netherlands (country)

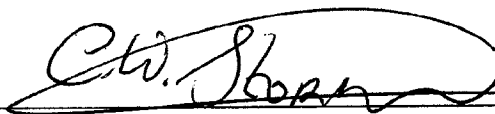
on 23 (day) January (month) 2012 (year)

I, Conny Storm whose full residence address is  
Laan van Wakeringse Veld 1142, 2548 CT  
Den Haag, The Netherlands

was personally present and did see the person named above, Remco Jager  
execute the above assignment on 23 (day)

January (month) 2012 (year), and such assignor is personally

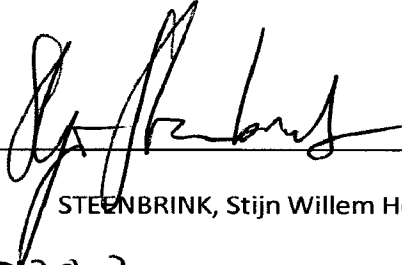
known to me to be the person described in this assignment.



Signature of Witness

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

SIGNATURE OF ASSIGNOR:



STEENBRINK, Stijn Willem Herman Karel

Date: 24-01-2012 (dd.mm.yyyy)

STATEMENT OF WITNESS:

Signed at Delft (city) Netherlands (country)

on 24 (day) January (month) 2012 (year)

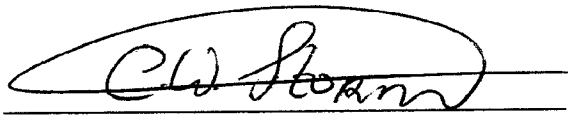
I, Corry Storm whose full residence address is  
Laan van Watvingse Veld 1142, 254d CT  
Den Haag, The Netherlands

was personally present and did see the person named above, Stijn

Steenbrink, execute the above assignment on 24 (day)

January (month) 2012 (year), and such assignor is personally

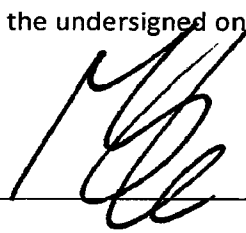
known to me to be the person described in this assignment.



Signature of Witness

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

SIGNATURE OF ASSIGNOR:



VAN MELLE, Ralph

Date: 19/01/2012 (dd.mm.yyyy)

STATEMENT OF WITNESS:

Signed at Delft (city) Netherlands (country)

on 19 (day) January (month) 2012 (year)

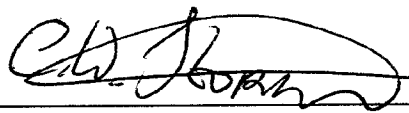
I, Conny Storm whose full residence address is  
Laan van Wateringse Veld 1142, 2546 CT  
Den Haag, The Netherlands

was personally present and did see the person named above, Ralph van Melle

execute the above assignment on 19 (day)

January (month) 2012 (year), and such assignor is personally

known to me to be the person described in this assignment.



Signature of Witness

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

SIGNATURE OF ASSIGNOR:



DERKS, Henk

Date: 24/1/12 (dd.mm.yyyy)

STATEMENT OF WITNESS:

Signed at Delft (city) Netherlands (country)

on 24 (day) January (month) 2012 (year)

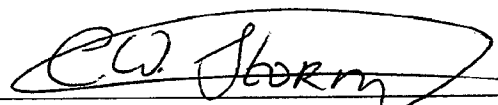
I, Conny Storm whose full residence address is  
Laan van Wateringse Veld 1142, 2548 CT  
Den Haag, The Netherlands

was personally present and did see the person named above, Henk Derks

execute the above assignment on 24 (day)

January (month) 2012 (year), and such assignor is personally

known to me to be the person described in this assignment.



Signature of Witness