

# PATENT ASSIGNMENT

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<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	12/02/2010
Ferry Michael POSTMA	11/26/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Mapper Lithography IP B.V.
<b>Street Address:</b>	Computerlaan 13
<b>City:</b>	DELFT
<b>State/Country:</b>	NETHERLANDS
<b>Postal Code:</b>	2628 XK
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12911861
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(020)463-7296
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<b>Address Line 1:</b>	Rembrandt Tower 31st Floor
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<b>Address Line 4:</b>	Amsterdam, NETHERLANDS 1096 HA
<b>ATTORNEY DOCKET NUMBER:</b>	03147.0033.USN1
<b>NAME OF SUBMITTER:</b>	David P. OWEN
<p>Total Attachments: 5</p> <p>source=M45_Assignment#page1.tif</p> <p>source=M45_Assignment#page2.tif</p>	

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**PATENT**  
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ASSIGNMENT BETWEEN:

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

and

**POSTMA, Ferry Michael**  
**Marjonystraat 37**  
**3151 JK HOEK VAN HOLLAND**  
**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(s) is/are the inventor(s) of the Invention(s) known **CHARGED PARTICLE MULTI-BEAMLET LITHOGRAPHY SYSTEM, MODULATION DEVICE, AND METHOD OF MANUFACTURING THEREOF** for which patent protection has been applied for in the form of the patent application(s) listed in the schedule below.

(B) The Assignor(s) agreed to assign to the Assignee(s) 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 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 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 Assignor(s) 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).

Initials Assignor(s)



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Initial Assignees(s)



**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 2009** 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 (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 Netherlands**

The undersigned hereby grants David P. Owen, USPTO Reg. No. 43,344; Michael J. Bell, USPTO Reg. No. 39,604; Derek J. Jardieu, USPTO Reg. No. 44,483; Robert C. Laurenson, USPTO Reg. No. 34,206; Coraline J. Haitjema, USPTO Reg No. 63,192; 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 EP Reg No. 09218580; Maarten Mooij EP Reg No. 09226770; each an attorney or agent with the law firm of HOWREY 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	US 61/254,799	2009.10.26
PCT (including all designated/elected states and regions)	PCT/EP2010/066195	2010.10.26
Taiwan	99136453	2010.10.26

Initials Assignor(s) \_\_\_\_\_

Initial Assignees(s) \_\_\_\_\_

United States of America	US 12/911,861	2010.10.26
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IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite their name(s).

SIGNATURE OF ASSIGNEE: X M W Wieland Date: 02 dec 2010 (dd.mm.yyyy)  
MAPPER LITHOGRAPHY IP B.V.

STATEMENT OF WITNESS:

Signed at Delft (city) Netherlands (country)

on 2 (day) december (month) 2010 (year)

I, Conny Storm whose full residence address is  
Laan van Weteringse Veld 1142, 2548 CT De Haag was  
personally present and did see the person named above, Marco Wieland,  
execute the above assignment on 02 (day) december (month) 2010 (year), and  
such assignor is personally known to me to be the person described in this assignment.

CW Storm  
Signature of Witness

Initials Assignor(s) P MW

Initial Assignees(s) MW

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

SIGNATURE OF ASSIGNOR: M. Wieland Date: 2 dec 2016 (dd.mm.yyyy)  
Marco Jan-Jaco WIELAND

STATEMENT OF WITNESS:

Signed at Delft (city) Netherlands (country)  
on 2 (day) December (month) 2016 (year)

I, Conny Storm whose full residence address is  
Laan van Wakeringse Veld 1142, 2540 CT Den Haag was  
personally present and did see the person named above, Marco Wieland,  
execute the above assignment on 2 (day) December (month) 2016 (year), and  
such assignor is personally known to me to be the person described in this assignment.

CW. Storm  
Signature of Witness

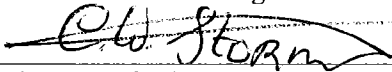
IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite their name(s).

SIGNATURE OF ASSIGNOR:  Date: 26-11-2010 (dd.mm.yyyy)  
Ferry Michael POSTMA

STATEMENT OF WITNESS:

Signed at Delft (city) Netherlands (country)  
on 26 (day) November (month) 2010 (year)

I, Conny Storm whose full residence address is  
Laan van Wateringse Veld 1142, 2548 CT Den Haag  
personally present and did see the person named above, Ferry Postma,  
execute the above assignment on 26 (day) November (month) 2010 (year), and  
such assignor is personally known to me to be the person described in this assignment.

  
Signature of Witness