PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TEUNIS VAN DE PEUT	06/21/2013
HENDRIK DEN BOER	06/21/2013

RECEIVING PARTY DATA

Name:	MAPPER LITHOGRAPHY IP B.V.
Street Address:	COMPUTERLAAN 15
City:	DELFT
State/Country:	NETHERLANDS

PROPERTY NUMBERS Total: 2

Property Type	Number
PCT Number:	EP2013059604
Application Number:	14400561

CORRESPONDENCE DATA

Fax Number:

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: mcgeem@hoyngmonegier.com

Correspondent Name: MIKE MCGEE

Address Line 1: REMBRANDT TOWER, 31ST FL. AMSTELPLEIN 1

Address Line 4: AMSTERDAM, NETHERLANDS 1096 HA

ATTORNEY DOCKET NUMBER:	03147.0091.USP0
NAME OF SUBMITTER:	DAVID P. OWEN
SIGNATURE:	/d p owen/
DATE SIGNED:	04/08/2015

Total Attachments: 8

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> PATENT REEL: 035354 FRAME: 0002

Client Reference: M102

COMBINED INVENTOR DECLARATION AND ASSIGNMENT TO APPLICANT

Title of Invention:

MODULATION DEVICE AND POWER SUPPLY ARRANGEMENT

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. The application(s) identified herein is/was 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.

I acknowledge the duty to disclose information which is material to patentability before the U.S. Patent Office as defined in Title 37 Code of Federal Regulations §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

WHEREAS:-

- (A) As stated above, 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 below; and
- (B) The undersigned has/have agreed to assign to: MAPPER LITHOGRAPHY IP B.V.,
 Computeriaan 15, 2628 XK Delft, The Netherlands. The undersigned 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 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 properties associated with the Invention(s) to the Assignee(s).

Initials Inventors	× 1 ×
Initials Assignee	

PATENT REEL: 035354 FRAME: 0003

Docket Number: 03147.0091.PCN0

Client Reference: M102

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 undersigned, the receipt of which is hereby acknowledged, the undersigned hereby confirms/confirm effective of **14 May 2012** 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.

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; 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; 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.

Initials Inventors

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SCHEDULE

Country	Application No.	Filing Date
United States of America	61/646,835	14 May 2012
United States of America	61/737,188	14 December 2012
The Netherlands	2010759	06 May 2013
PCT (including all designated/elected states and regions)	PCT/EP2013/059604	08 May 2013
Talwan	102117003	14 May 2013

Initials Inventors

Initials Assignee

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Client Reference: M102 IN WITNESS WHEREOF, executed by the undersigned on the date(s) opposite their name(s). _____(dd.mm.yyyy) Mapper Lithography ip B.V. STATEMENT OF WITNESS: Signed at (day) (month) on whose full residence address is was personally present and did see the person named above, __/////// _____, execute the above assignment on _____ _ (month) <u>20/ろ</u> (year), and such inventor is personally known to me to be the person described in this assignment.

Docket Number : 03147.0091.PCN0

Signature of Witness

Docket Number: 03147.0091.PCN0

Client Reference: M102

Patent

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

SIGNATURE OF INVENTOR:

Date: <u>21 & 2013</u>

dd.mm.yyy

Name: VAN DE PEUT, Teunis

STATEMENT OF WITNESS:	
Signed at Jelft (city) the Netherlands	(country)
on <u>27 (day) </u>	
-, 1, <u>Cágsy Maga</u>	whose full residence address is
Lego von Watelings Veld 1142, 2548 GOEN	Hoog, the 12He/sexwas
personally present and did see the person named above,	
execute the above assignment on 2/ (day)	(month) $20/2$ (year), and
such inventor is personally known to me to be the person descr	ibed in this assignment.
and the state of the	The Or

Signature of Witness

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Docket Number: 03147.0091.PCN0
Client Reference: M102

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

tagmin's taken the second of t	SIGNATURE OF INVENTOR:		Date: <u>2 < - 0 </u>
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Name: DEN BOER, Hendrik

Signed at (city) the letherlands (country)	
on <u>2/</u> (day) <u>//408</u> (month) <u>20/3</u> (year)	
I,	er.
personally present and did see the person named above, execute the above assignment on(day)(month)(year), and	
such inventor is personally known to me to be the person described in this assignment.	

Signature of Witness

Docket Number: 03147.0091.PCN0

Client Reference: M102

INVENTOR (Full Legal Name)	Residence (city, country)	Mailing address	Citizenship
VAN DE PEUT, Teunis	Leusden Netherlands	Galicië 14 3831 JD Leusden Netherlands	NL
DEN BOER, Hendrik	's-Gravenzande Netherlands	Naaidwijkseweg 80 2691 RK 's-Gravenzande Netherlands	NL

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PATENT REEL: 035354 FRAME: 0010

RECORDED: 04/08/2015