

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| | |
| Name | Execution Date |
| ULRICH HOFMANN | 06/17/2016 |
| FRANK SENGER | 06/09/2016 |
| THOMAS VON WANTOCH | 06/21/2016 |
| CHRISTIAN MALLAS | 06/20/2016 |
| JOACHIM JANES | 06/14/2016 |
| RECEIVING PARTY DATA | |
| Name: | FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. |
| Street Address: | HANSASTRASSE 27C |
| City: | MÜNCHEN |
| State/Country: | GERMANY |
| Postal Code: | 80686 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15037509 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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> | |
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| Correspondent Name: | SCHWEGMAN LUNDBERG & WOESSNER, P.A. |
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| Address Line 4: | MINNEAPOLIS, MINNESOTA 55402 |
| ATTORNEY DOCKET NUMBER: | 3037.140US1 |
| NAME OF SUBMITTER: | KASIE A. BOSMA |
| SIGNATURE: | /Kasie A. Bosma/ |
| DATE SIGNED: | 09/02/2016 |
| Total Attachments: 8 | |
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PATENTS ONLY

Atty Ref/Docket No.: 3037.140US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Ulrich Hofmann, Frank Senger, Thomas von Wantoch, Christian Mallas, Joachim Janes
Additional name(s) of conveying party(ies) attached?
 Yes No

2. Name and address of receiving party(ies): Name: Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
Street Address: Hansastrasse 27c
City: München, 80686
Country: Germany
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: June 14, 2016, June 9, 2016, June 21, 2016, June 20, 2016, June 14, 2016

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 15/037,509

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Suneel Arora

Address:

Schwegman Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, MN 55402--0938

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 0.00

Enclosed

Authorized to be charged to deposit account 19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

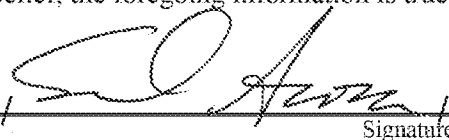
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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Suneel Arora/Reg. No. 42,267

Name of Person Signing



Signature

Sept. 1, 2016

Date

Total number of pages including cover sheet: 8

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
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P.O. Box 1450
Alexandria, VA 22313-1450

PATENT
REEL: 039620 FRAME: 0297

Attorney Docket No. 3037.140US1
Client Ref. No. 167P 0435 BT/SO

ASSIGNMENT

WHEREAS, Ulrich Hofmann, Frank Senger, Thomas von Wantoch, Christian Mailas and Joachim Janes (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on May 18, 2016, which application was assigned US patent application serial number 15/037,509, and which is titled MICROMIRROR ARRANGEMENT; which are described in a patent application filed on November 24, 2014, which application was assigned PCT application serial number PCT/EP2014/075380, and which is titled MICROMIRROR ARRANGEMENT; which are described in a patent application filed on November 22, 2013, which application was assigned DE application serial number 10 2013 223 933.5, and which is titled MICROMIRROR ARRANGEMENT.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. (the "Assignee"), having a place of business at Hansastrasse 27c, München 80686, Germany, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such invention to the Assignee;

Assignment
Assignors: Ulrich Hofmann et al.
Title: MICROMIRROR ARRANGEMENT
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Docket No: 3037.140US1
Client Ref. No. 1672 0435 BT/SO

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

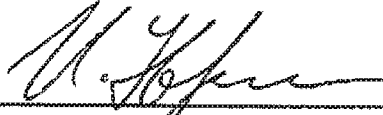
AGREED as of the date of my signature below:

Assignment
Assignors: Ulrich Hofmann et al.
Title: MICROMIRROR ARRANGEMENT
Page 3 of 7

Docket No. 3037.140US1
Client Ref. No. 167P 0435 DT/SO

Assignor:

(Signature):



Name: Ulrich Hofmann

City/State: Itzehoe, Germany

Date:

06/14/16

Assignment
Assignor: Ulrich Hofmann et al.
Title: MICROMIRROR ARRANGEMENT
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Docket No: 3037.140US1
Client Ref. No. 167P 0435 BT/SO

Assignor:

(Signature):



Name: Frank Senger

City/State: Hardenfeld, Germany

Date:

09.06.16

Assignment
Assignors: Ulrich Hofmann et al.
Title: MICROMIRROR ARRANGEMENT
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Docket No: 3037.140US1
Client Ref. No. 167P 0435 BT/SO

Assignor:

(Signature):



Name: Thomas von Wartoch

City/State: Miel, Germany

Date:

21.6.16

Assignment
Assignors: Ulrich Hofmann et al.
Title: MICROMIRROR ARRANGEMENT
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Docket No: 3037.140US1
Client Ref. No. 167P 0435 BT/SO

Assignor:

(Signature):



Name: Christian Mallas

City/State: Schwentinental, Germany

Date:

20.6.2016 

Assignment
Assignors: Ulrich Hoffmann et al.
Title: MICROMIRROR ARRANGEMENT
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Docket No: 3037.140US1
Client Ref No. 167P 0435 BT/SO

Assignor:

(Signature):



Name: Joachim Janes
City/State: Itzehoe, Germany

Date:

14.6.16