505599824 07/31/2019

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| NADA A. O'BRIEN | 03/20/2014 |
| CHARLES A. HULSE | 05/22/2014 |
| HEINZ W. SIESLER | 03/19/2014 |
| CHANGMENG HSIUNG | 03/18/2014 |

RECEIVING PARTY DATA

| Name: | JDS UNIPHASE CORPORATION |
|-----------------|---------------------------|
| Street Address: | 430 N. MCCARTHY BOULEVARD |
| City: | MILPITAS |
| State/Country: | CALIFORNIA |
| Postal Code: | 95035 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16527712 |

CORRESPONDENCE DATA

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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.

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Email: jrosenfeld@harrityllp.com HARRITY & HARRITY, LLP **Correspondent Name:** Address Line 1: 11350 RANDOM HILLS RD.

Address Line 2: SUITE 600

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| ATTORNEY DOCKET NUMBER: | 0099-0098C2 |
|-------------------------|----------------|
| NAME OF SUBMITTER: | RACHEL ALLEN |
| SIGNATURE: | /Rachel Allen/ |
| DATE SIGNED: | 07/31/2019 |

Total Attachments: 5

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PATENT REEL: 049922 FRAME: 0034 505599824

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> PATENT REEL: 049922 FRAME: 0035

File No: 18-364 US

ASSIGNMENT OF INVENTION UNIVERSAL

WHEREAS, I/we Nada A. O'BRIEN; Charles A. HULSE; Heinz W. SIESLER; and Changmeng HSIUNG, whose full post office address(es) is/are 5867 Sailing Hawk Avenue, Santa Rosa, California, 95409, U.S.A.; 7440 Healdsburg Avenue, Sebastopol, California, 95472, U.S.A.; Hofringstrasse 43, Essen, D 45138, Germany; and 769 Mediterranean Ln, Redwood City, California, 94065, U.S.A.; respectively, have made an invention as described in the patent application entitled

SPECTROSCOPIC CHARACTERIZATION OF SEAFOOD filed herewith.

I/we hereby authorize my/our attorney to insert here in parentheses (Application Number 14/222,216, filed 03/21/2014), the filing date and application number of said application, when known.

WHEREAS, JDS Uniphase Corporation (hereinafter referred to as the assignee), whose full post office address is 430 N. McCarthy Boulevard, Milpitas, California, 95035, USA is desirous of acquiring the entire right, title and interest in and to said invention or inventions and in and to any and all patents to be obtained therefor;

NOW, THEREFORE, To All Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we have and by these presents do hereby sell, assign and transfer unto said assignee, its successors and assignees, the entire right, title and interest in and to said invention or inventions, as described in the aforesaid application, in any form or embodiment thereof, and in and to the aforesaid application, and in and to any applications filed in any foreign country based thereon, including the right to file said foreign applications under the provisions of the International Convention; also the entire right, title and interest in and to any and all patents, reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions, and any divisional, continuation, substitute application(s) or supplementary disclosure(s) which may be filed upon said invention or inventions, in any country; and I/we hereby authorize and request the issuing authority to issue any and all patents on said application or applications to said assignee.

PATENT REEL: 049922 FRAME: 0036 I/We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon.

| Executed this ond day of March, 201 at Sarta Rosa, CA. | 14. |
|---|---|
| at Santa Rosa, CA. | |
| (place) | Nada A. O'BRIEN |
| Declaration | by Witness |
| I, MICHAEZ OWENS | whose full post office address is LA say: |
| That I was personally present and did sector me, duly sign and execute the above Assignment | e Nada A. O'BRIEN, who is personally known ent. Signature of Witness |
| Executed this day of, 20 at (place) | 14. |
| | Charles A. HULSE |
| Declaration | by Witness |
| I, | , whose full post office address is |
| That I was personally present and did se to me, duly sign and execute the above Assignment | e Charles A. HULSE, who is personally known ent. |
| | Signature of Witness |

I/We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon.

| Executed this day of | , 2014. |
|--|---|
| at(place) | · |
| (place) | |
| | Nada A. O'BRIEN |
| Decla | ration by Witness |
| Ι, | , whose full post office address is |
| | say: |
| to me, duly sign and execute the above Ass | did see Nada A. O'BRIEN, who is personally known signment. |
| | Signature of Witness |
| | J |
| | |
| D. 111 27 1 C Mall | 0014 |
| executed this 22 day of May at Son CA (place) | , 2014. |
| at South 1005a (M | - Oldhe |
| | Charles A. HULSE |
| Declar | ration by Witness |
| I, Beadlay J. Pra | , whose full post office address is |
| p29 Luchian Pl. Santa Rusa, | GR say: |
| That I was personally present and to me, duly sign and execute the above Ass | did see Charles A. HULSE , who is personally known signment. |
| | Signature of Winess |

2

| Executed this 19 day of March, 2012 at Essen Germany (place) | 4. |
|---|--|
| at Essen Germany | |
| (place) ' | H.W. Sierlas |
| | Heinz W. SIESLER |
| Declaration b | y Witness |
| I, MONIKA MARIA SIESLA | , whose full post office address is |
| HOPRINGSTRASSE 43, D45138 ESSEN, GER | MAN/say: |
| | Heinz W. SIESLER, who is personally known |
| | Mauba M. Sienles Signature of Witness |
| | |
| | |
| Executed this day of, 2014 | J . |
| at (place) | |
| (place) | |
| | Changmeng HSIUNG |
| Declaration b | y Witness |
| Ι, | , whose full post office address is |
| | say: |
| That I was personally present and did so known to me, duly sign and execute the above Ass | e Changmeng HSIUNG, who is personally ignment. |
| | Signature of Witness |

| Executed this day of | , 2014. |
|--|---|
| at | · |
| at | |
| | Heinz W. SIESLER |
| | Declaration by Witness |
| I, | , whose full post office address i |
| | say: |
| Executed this 18 day of M IVSU at Sata Rusa, CA (place) | Signature of Witness Aarch, 2014. |
| (place) | Changmeng HSIUNG |
| | Declaration by Witness |
| I, Alexandra | Viscarial, whose full post office address i Rohnest Fask, CA say: |
| 139 Hacsenda Circle | Rohnest Bask, CA say: |
| | present and did see Changmeng HSIUNG, who is personally |

3