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PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | | |
|-----------------------|----------------|----------------|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | |
| CONVEYING PARTY DATA | | | |
| Name | | Execution Date | |

RECEIVING PARTY DATA

AXEL FLETTNER

| Name: | JDSU DEUTSCHLAND GMBH |
|-----------------|-----------------------|
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| Postal Code: | 72800 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14094068 |

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| ATTORNEY DOCKET NUMBER: | 36-280 US |
|-------------------------|------------------------------|
| NAME OF SUBMITTER: | MATTHEW A. PEQUIGNOT |
| Signature: | /Matthew A. Pequignot 43851/ |
| Date: | 12/02/2013 |

Total Attachments: 2

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PATENT REEL: 031699 FRAME: 0203 1409/1

File No: 36-280 US

ASSIGNMENT OF INVENTION UNIVERSAL

WHEREAS, I/we Axel FLETTNER, whose full post office address(es) is/are Heubergstraße 6, 71149 Bondorf, Germany, respectively, have made an invention as described in the patent application entitled

MEASURING SIGNAL TO NOISE RATIO OF A WDM OPTICAL SIGNAL

filed herewith.

| I/we hereby authorize my/our attorney to insert here in parentheses | | | | | | | | |
|---|---------------------------------|-------------|----|-----|--------|------|--|--|
| (Application N | Number | , filed |), | the | filing | date | | |
| and applicatio | n number of said application, v | vhen known. | | | | | | |

WHEREAS, JDSU Deutschland GmbH, (hereinafter referred to as the assignee), whose full post office address is Mühleweg 5, 72800 Eningen, Germany 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.

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PATENT REEL: 031699 FRAME: 0204

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 21 day of November, 2013.

at Eningen U.A.

(place)

(place)

Declaration by Witness

I, Molfgang Ecoess, whose full post office address is Hunterway 5, 72800 Eningen Garmansay:

That I was personally present and did see Axel FLETTNER, who is personally known to me, duly sign and execute the above Assignmen

Signature of Witness

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RECORDED: 12/02/2013