PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WOLFGANG SCHADE	02/06/2018
MICHAEL KOHRING	02/06/2018
CHRISTIAN WALTERMANN	02/20/2018
KONRAD BETHMANN	01/31/2018

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15773458

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DATE SIGNED:	06/14/2018
SIGNATURE:	/MEH/
NAME OF SUBMITTER:	MICHAEL E. HUSSEY
ATTORNEY DOCKET NUMBER:	15991-47 (30135 PWOUS)

Total Attachments: 5

PATENT REEL: 046087 FRAME: 0812

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PATENT REEL: 046087 FRAME: 0813

CONFIRMATION OF OWNERSHIP AND ASSIGNMENT

WHEREAS, Wolfgang Schade, Michael Köhring, Christian Waltermann, and Konrad Bethmann, hereinafter called the "Inventors", have made the invention ("Invention"), which is described in International Patent Application PCT/EP2016/077577, filed November 14, 2016, entitled OPTICAL COMPONENT AND METHOD FOR THE PRODUCTION THEREOF ("Patent Application"), and which is described in German Patent Application No. 10 2015 222 328.0, filed November 12, 2015;

WHEREAS. Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung

e.V., a corporation organized and existing under the laws of Germany, having a place of business at Hansastraße 27c, 80686 Munich, Germany, hereinafter called the "Employer", employed the Inventors at the time the Invention was made;

WHEREAS, the Inventors acknowledge that the Employer possesses all right, title, and interest in and to the Invention and the Patent Application in accordance with German law:

NOW, THEREFORE, the Inventors hereby confirm that the Employer owns all right, title and interest in the Invention and the Patent Application and also confirms that any and all Patents granted for the Invention in the United States of America and all other countries or regions, including any and all divisions, continuations, continuations-in-part of the Patent Application, reissues, reexaminations, or extensions of said Patents, also vest in the Employer, and that the Employer shall have the full right to claim for any such Patents all benefits and priority rights under any applicable convention, treaty, or legislation, and the right to sue and obtain relief, including damages, profits, and injunctions, for any infringement occurring before or after issuance of the Patents.

FURTHERMORE, to confirm full ownership by the Employer of the Invention, Patent Application, and Patents which may be granted for the Inventions, even against a contrary determination by any authority, including courts of the United States or any other country for any reason, the Inventors hereby assign, sell, and transfer to the

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PATENT REEL: 046087 FRAME: 0814

Employer in exchange for compensation to the Inventors as may be required under German law that is good, valuable, and legally sufficient, the receipt of which the Inventors hereby acknowledge, the entire right, title, and interest in and to the Invention and the Patent Application, and any and all Patents in the United States of America and all foreign countries that may be granted for the Invention or on the Patent Application, including any and all divisions, continuations, and continuations-in-part of the Patent Application, reissues, reexaminations, renewals, and extensions of said Patents, as well as the full right to claim for any such Patents all benefits and priority rights under any applicable convention, treaty, or legislation, and the right to sue and obtain relief, including damages, profits, and injunctions, for any infringement occurring before or after issuance of the Patents.

The Inventors hereby authorizes and requests each national Patent Office to issue the Patents to the Employer or to the successors, legal representatives, or assigns of the Employer.

IN TESTIMONY WHEREOF, the Inventors have executed this Confirmation of

Ownership and Assignment on the date shown below.		
MEH February 6, 2018		
Date	Wolfgang Schade	
Date	Michael Köhring	
Date	Christian Waltermann	

Page 2 of 2

Konrad Bethmann

Date

Employer in exchange for compensation to the Inventors as may be required under German law that is good, valuable, and legally sufficient, the receipt of which the Inventors hereby acknowledge, the entire right, title, and interest in and to the Invention and the Patent Application, and any and all Patents in the United States of America and all foreign countries that may be granted for the Invention or on the Patent Application, including any and all divisions, continuations, and continuations-in-part of the Patent Application, reissues, reexaminations, renewals, and extensions of said Patents, as well as the full right to claim for any such Patents all benefits and priority rights under any applicable convention, treaty, or legislation, and the right to sue and obtain relief, including damages, profits, and injunctions, for any infringement occurring before or after issuance of the Patents.

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IN TESTIMONY WHEREOF, the Inventors have executed this Confirmation of Ownership and Assignment on the date shown below.

M 1	181-15
Date	Wolfgang Schade
62.182	
Date	Michael Köhring
Date	Christian Waltermann
Date	Konrad Bethmann

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IN TESTIMONY WHEREOF, the Inventors have executed this Confirmation of Ownership and Assignment on the date shown below.

Date	Wolfgang Schade
Date	Michael Köhring
20.02,2018 Date	Christian Waltermann
Date	Konrad Bethmann

Employer in exchange for compensation to the Inventors as may be required under German law that is good, valuable, and legally sufficient, the receipt of which the Inventors hereby acknowledge, the entire right, title, and interest in and to the Invention and the Patent Application, and any and all Patents in the United States of America and all foreign countries that may be granted for the Invention or on the Patent Application, including any and all divisions, continuations, and continuations-in-part of the Patent Application, reissues, reexaminations, renewals, and extensions of said Patents, as well as the full right to claim for any such Patents all benefits and priority rights under any applicable convention, treaty, or legislation, and the right to sue and obtain relief, including damages, profits, and injunctions, for any infringement occurring before or after issuance of the Patents.

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IN TESTIMONY WHEREOF, the Inventors have executed this Confirmation of Ownership and Assignment on the date shown below.

Date	Wolfgang Schade
Date	Michael Köhring
Date	Christian Waltermann
31,01,2019 Date	ノC / / / Konrad Bethmann

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