504671566 12/05/2017

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4718288

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| JUN HO WON | 12/04/2017 |
| DO YOUNG LEE | 12/04/2017 |
| KYUNG HAK CHOI | 12/04/2017 |
| AN SHIK CHOI | 12/04/2017 |

RECEIVING PARTY DATA

| Name: | OPTOLANE TECHNOLOGIES INC. | |
|-----------------|---------------------------------------|--|
| Street Address: | 6F, 20, PANGYOYEOK-RO 241, BUNDANG-GU | |
| City: | SEONGNAM-SHI, GYEONGGI-DO | |
| State/Country: | KOREA, REPUBLIC OF | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15831837 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | JEO-0004-SE | |
|-------------------------|--|--|
| NAME OF SUBMITTER: | JAE Y. PARK | |
| SIGNATURE: | /Jae Y. Park/ | |
| DATE SIGNED: | 12/05/2017 | |
| | This document serves as an Oath/Declaration (37 CFR 1.63). | |

Total Attachments: 3

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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

| Title of Invention | WIDE-ANGLE EMISSION FILTER, OPTICAL SENSOR ASSEMBLY HAVING THE SAME, PCR SYSTEM HAVING THE SAME, AND METHOD OF MANUFACTURING THE SAME | | |
|---|---|--------------------------------|--------------------------|
| As the below named inventor, I hereby declare that: | | | |
| This declaration is dire | ected to: | , | |
| The attached application, | | | |
| | es application number | | |
| PCT interna | ational application number | filed on | ggeneration and a second |
| The above-identified a | pplication was made or author | ized to be made by me. | |
| I believe that I am the application. | original inventor or an origin | nal joint inventor of a claime | d invention in the |
| | understand the contents of the of the duty to disclose informed. | | |
| | that any willful false staten by fine or imprisonment of no | | |
| WHEREAS, OPTOLANE Technologies Inc. of 6F, 20, Pangvoyeok-ro 241, Bundang-gu, Scongnam-shi, Gyeonggi-do, Republic of Korea, its heirs, successors, legal representatives and assigns (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefore in the United States of America and in any foreign countries. | | | |
| NOW, THEREFORE, to all whom it may concern, be it known that, for good and valuable consideration paid to the undersigned, the receipt of which is hereby acknowledged, I have sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefore in the United States of America, its territories, dependencies and possessions, and in any and all foreign countries; | | | |
| and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted. | | | |

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United States Patent and Trademark Office

I agree to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I agree to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

I agree to execute all papers and documents and to perform any act which may be necessary in connection with claims and provisions of the International Convention for the Protection of Industrial Property or similar agreements.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by me if this Assignment and sale had not been made.

I hereby authorize and request the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, and hereby covenant that I have the full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I declare that all statements made in the above assignment 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 willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C.1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

| LEGAL NAME OF INVENTOR | |
|------------------------|---|
| Inventor: Jun Ho WON | Citizenship: Republic of Korea country |
| Date: Dec. 06 2017 | Signature: |

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| LEGAL NAME OF INVENTOR | |
|--|---|
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| Date: Dec. 04. 2017 | Signature: Do Young LZZ |
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| Inventor: An Shik CHOI | Citizenship: Republic of Korea |
| Date: Dec. 04. 2017 | Signature: |

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Atty Docket No. JEO-0004-SE

RECORDED: 12/05/2017

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