PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| VENKATA ANANTH TAMMA | 08/20/2019 |

RECEIVING PARTY DATA

| Name: | LUMILEDS LLC | |
|-----------------|-----------------------|--|
| Street Address: | 370 WEST TRIMBLE ROAD | |
| City: | SAN JOSE | |
| State/Country: | CALIFORNIA | |
| Postal Code: | 95131 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 17738859 |

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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| ATTORNEY DOCKET NUMBER: | 2017P00037US04 |
|-------------------------|------------------------------------|
| NAME OF SUBMITTER: | DAVID SADRI ALAVI, REG. NO. 40,310 |
| SIGNATURE: | /David Sadri Alavi/ |
| DATE SIGNED: | 05/06/2022 |

Total Attachments: 1

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PATENT REEL: 059863 FRAME: 0798

507271697

Attorney Docket No.: 2017P00037US02

ASSIGNMENT

Venkata Ananth TAMMA 370 West Trimble Road San Jose, CA 95131

(Assignor) hereby sells, assigns and transfers to Lumileds LLC (Assignce) having a place of business at 370 West Trimble Road, San Jose, California 95131, its successors and assigns, the entire right, title and interest throughout the world in the invention entitled

NANOSTRUCTURED META-MATERIALS AND META-SURFACES TO COLLIMATE LIGHT EMISSIONS FROM LEDS

for which the undersigned has executed an application for United States Letters Patent, U.S. Patent Application No. 16/161.875, filed October 16, 2018, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; I authorize the above-named Assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from me; I agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said Assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and I request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named Assignee, its successors and assigns.

Executed this 20 day of AVGVS7 2019.

WITNESSED:

Signature 08/20/20/9

Date Audre Papou

Type or print name of witness

PATENT REEL: 059863 FRAME: 0799

RECORDED: 05/06/2022